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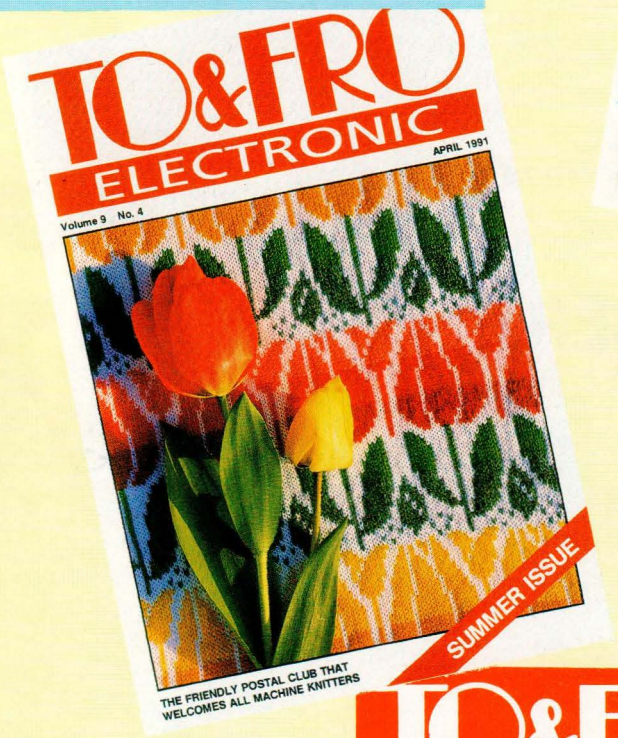

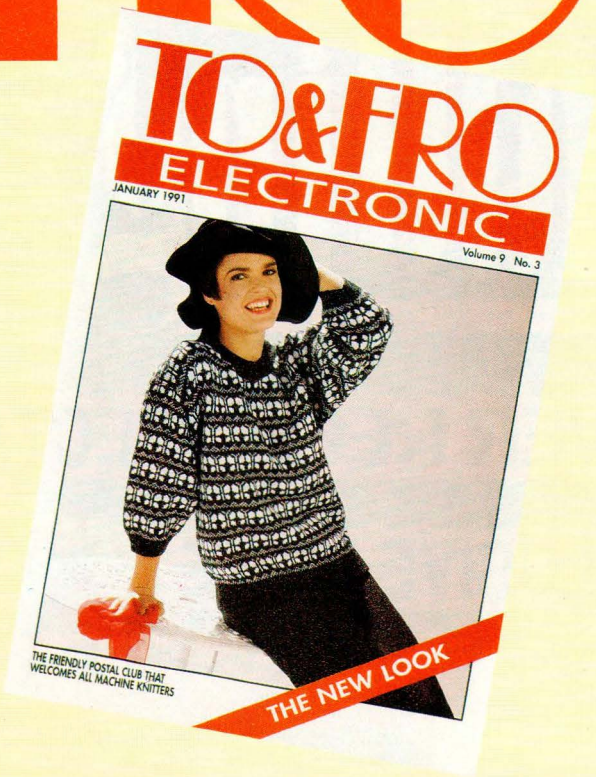

Also To & Fro Electronic — a quarterly magazine concentrating mostly on techniques and patterning for electronic machines. Designed as a complement to and not a replacement for To & Fro.

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Modern Machine Knitting is published monthly by Modern Knitting Ltd, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR
Photoset and printed by **Redwood Press Ltd.**
Distributed by **Seymour.**

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ISSN No. 0957-6673.
Printed in England.

FROM THE EDITOR

Our April Issue features some really special Easter treats! First, you can take the opportunity to enter our 'Knitsearch' Competition and win a superb machine knitting package. Silver Knitting Machines Ltd will be donating one of their SK 840 'Modular System' electronic machines to the lucky winner and the prize includes the EC1 Pattern Controller PLUS the PE1 Design Controller – two super accessories which combine with the knitting machine to provide both exceptional and creative knitting and design potential!

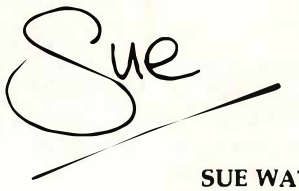
New Silver Reed electronic knitters will benefit from our exclusive series which starts this month with an easy to follow explanation of the workings of these machines and how to make the most of the exciting facilities they offer. The series should also be helpful to anyone who is considering buying one of these models.

We have had many letters asking for machine knit baby patterns – you'll find our special 'Baby Collection' provides a range of easy to knit and comfy to wear garments for any baby's wardrobe.

Easter wouldn't be the same without an Easter Bunny – we've included a rather unusual one for you this year – it's 'Bugs Bunny', the cartoon character, another exclusive Intarsia design from Gary Kennedy!

We haven't forgotten all our punchcard readers – you'll find plenty of inspiration this month in our regular features plus some super garment designs to knit for the family.

Happy Easter!



SUE WATSON

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You can write to Modern Machine Knitting at the following address:
3 Bridge Avenue,
Maidenhead, Berkshire SL6 1RR.
Our Telephone number is (0628) 770289.
Our Fax number is (0628) 777335.

KNITLINE

Uppingham Yarns

For some twelve years **Uppingham Yarns** has specialised in all types of industrial yarns from silk to humble acrylics. They purchase surplus yarn from industry, buying direct from Spinners. Tons of yarn is recycled every week and although reprocessed and analysed for fibre content, in order to comply with EEC Regulations, the yarns are not packaged, brand labelled or distributed. This costs money. Therefore, Uppingham Yarns are able to offer a variety of knitting yarns at a fraction of normal retail prices.

With regard to quality, many of both the man-made and natural fibre yarns come from the same source as packaged yarns. Most of the industrial yarns come from surplus yarn originally supplied for the ready-to-wear knitwear destined for major British store groups. The quality requirements of these stores are extremely rigorous.

The sales philosphy of Uppingham Yarns has always been the same as that coined by one of this country's innovative store groups 'Pile it High, Sell it Low'.

For further information on the qualities on offer, current prices and full mail order details send SAE to:

Yarn Markets (UK) Ltd
North Street East
Uppingham
Leicester LE15 9QL

Bookshelf

Two recently published hard backs are worth mentioning this month – the first is called **'Adventures in Knitting'** by Brenda Shapeero, which illustrates unusual and colourful examples of a variety of 'experimental' ideas for hand knitting. The book concentrates on the use of different yarn textures and stitch patterns, all created by breaking the normal 'knitting rules' to produce some really different and exciting effects – many of the colour illustrations could be a source of inspiration to machine knitters too! Priced at £12.95 this book is published by Batsford and is available from good book shops.

The second book is somewhat 'specialist' in that it is a history of 'Samplers & Sample Makers' in the United States – a craft which is strongly linked to the education of young women of the eighteenth and nineteenth centuries. A selection of eighty embroidered samplers are illustrated in this book and the author, Mary Jaene Edmonds, has traced nearly every example back to the original artist with details of home town and family as well as including educational details where possible. Priced £20.00, **'Samplers & Samplemakers An American Schoolgirl Art 1700–1850'** is published by Letts.

Intoshape

Clwyd Technics have now developed the ultimate computerised knitting package – the **'Brother System 90 INTOSHAPE'**. This package has all the in-built features and qualities of its predecessor, the 'Brother System 90', but with technological advancements which have produced additional facilities.

An IBM compatible computer with EGA/VGA screen, microsoft compatible mouse, serial port and 640K memory is required (hard disc advised). The package features a **Garment Editor** for on screen design – shaping is achieved by selecting the required garment piece from a library of standard sized garment sections. Where alterations are required, the user operates the computer mouse to change the outline to any shape of their choice. A shaping instruction can also be calculated for knitting the garment pieces.

The new package also offers the user the freedom to design their own logo or design for the garment, using full colour. Using the mouse, it is possible to draw freehand on screen or use one of the existing designs in the package. Alternatively, a design from another art package can be imported (PCX format). For the really adventurous, the package allows designs to be included that have been scanned – an image from a photograph for example. An **Overlay Editor** provides the facility for drawing directly onto the designed garment shape.

All on-screen designs can be edited stitch by stitch and the finished design can be viewed on screen in the format of 'knitted fabric' so that final adjustments or adaptations can be made for perfect results.

Pattern information can be sent direct to the 930, 940 and 950i Brother knitting machines. There is also a **Follow Screen** interaction between computer and knitting machine which allows the pattern and shaping instruction to be followed on screen as the knitting progresses.

If you would like more information on this product please contact:

Clwyd Technics
Antelope Industrial Estate
Rhydymwyn
Nr Mold
Clwyd CH7 5JH

Bristol Exhibition

We're just in time to remind you of the **Southern Knitting and Needlecraft Exhibition** which takes place between 20–22 March at the Bristol Exhibition Centre (10am – 6pm daily). Regular visitors will know that this is the eighth knitting show to be held in Bristol (the first one took place in 1985) – this one again promises plenty to interest knitters at all levels. Visitors will be able to see and buy all the latest yarns, machines, accessories and knitting publications as well as enjoy the popular fashion shows which take place at regular intervals throughout each day. There will also be workshops, guest speakers and demonstrations to cover every aspect of the craft. The cost of admission is £4.00 (Oap's £2.50 and children under 14 free). Further information – please ring 0272 701370.

Spring Calendar

There are several diary dates to make a note of this month. If you live in the West Country or if you are able to travel there with ease, the **'Crafts Alive'** show at Westpoint will be well worth a visit between 18th and 20th April. Full details from:

International Craft
& Hobby Fair Ltd
Dominic House
Seaton Road
Highcliffe
Dorset BH23 5HW
Tel: 0425 272711

KNITLINE

If you would like to spend Easter weekend enjoying pleasant surroundings at the same time as learning the technique of **'Cut & Sew'**, Pam Turbett's four day course (for machine knitters with dressmaking experience) starts on the 17th April at Missenden Abbey.

The following weekend on 24th – 26th April, Maggie Whiting is tutoring a course for hand knitters who would like to be shown her **'Innovative Ideas for Knitted Edgings'** – some unusual finishing touches which will make your knitwear stand out in a crowd!

May at Missenden Abbey should again prove to be a popular month for bookings – in particular, the weekend of 15th – 17th May, when John Allen and Jon Crane will be inspiring knitters and other crafts people to develop their design skills. This course is called **'A Weekend of Creative Magic for Textile Design'.**

There are many other courses on offer at the Abbey. To find out full details of available places and booking procedure please contact:

Missenden Abbey
Great Missenden
Buckinghamshire HP16 0BD
Tel: 0494 890296

Courses and Clubs

Diane Bennett will be offering specialised courses this summer for owners of Brother Electronics (all models), PPD and Passap/Pfaff 6000. Two levels are available, one for knitters who want to explore the potential of their machines and the other for more experienced electronic owners.

Diane will also be running a three day Ribber Course for owners of any Japanese machine and one day courses on the Double Bed Colour Changer, Linkers (including Hague) and the Garter Carriage. The dates for your diary and course fees are as follows:

12–14 May and 30 June – 2 July:
Brother Electronic (basic/intermediate) – £45.

2–4 June:
Explore Your Brother Electronic (experienced) – £45.

15 May & 29 June:
PPD – £15.

18 May:
Double Bed Colour Changer – £10.

19 May:
Hague Linker – £10.

20 May:
The Garter Carriage – £10.

16–18 June:
Ribber – £30

23–25 June:
Passap/Pfaff 6000 (basic/intermediate) – £50.

7–9 July:
Explore Your E6000 (experienced) – £50.

For further information contact:

Diane Bennett
9 Huntley Grove
Nailsea
Bristol BS19 2UQ
Tel: 0275 810067

Anne Kent and Pauline Murphy are hosting another **'Machine Knitter's Day'** on Saturday 2 May at Sanderstead, South Croydon. The Guest speakers will be Hazel Ratcliffe, Phillis Batchelor and Anne Kent. Admission to these popular events is by programme only (cost £10 to include coffee/biscuits, buffet lunch and tea/cakes) – numbers are limited so book early by phoning Anne on 081 657 5740 or write to her at the following address:

Anne Kent
51 West Hill
Sanderstead
Surrey CR2 0SB

The **Chiltern Machine Knitting Club** meets at Amersham Common Hall, White Lion Road, Amersham on the third Wednesday of every month from 8pm to 10.15pm and would like to hear from prospective new members. Contact Claudie Cameron-Wilson

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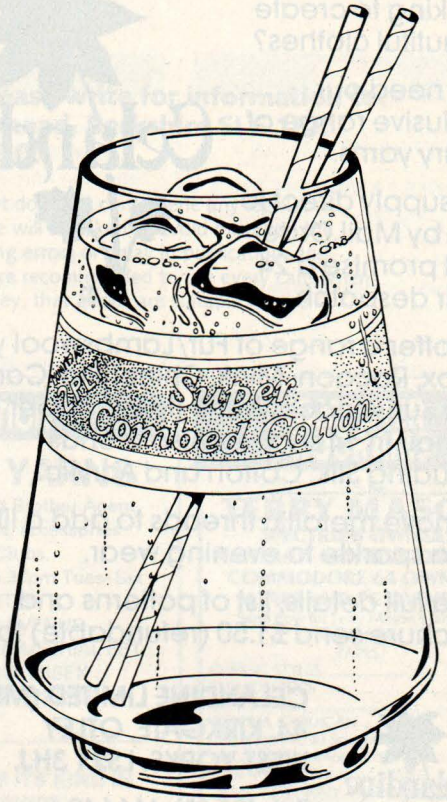

THE COOLNESS OF COTTON

Cool summer fashion means Super Combed Cotton from Forsell.

This new 100% pure cotton 2-ply comes in a superb range of 20 colours and, as its name suggests, is super combed to achieve the highest quality. This makes it ideal for double bed machines and standard gauge, where it can be used double as a fine 4-ply or single to produce delicate lacy patterns, Jacquard, tuck stitch and Fairisle.

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Forsell 2-ply Cotton Pattern Book now available.

Forsell

T. Forsell & Son Ltd., Blaby Road, South Wigston Leicester LE8 2SG.

Distributors:

USA – The Knitting Machine Centre, 5442 Cannas Drive, Cincinnati, Ohio. 45238.
Canada – Westrade Sales, 2711, no. 3 Road, Richmond, B.C. V6X 2B2.
Australia – Tanunda Woolcraft, 1776 Murray Street, Tanunda, South Australia 5352.
Holland – Projeko, Raamsingel 30, 2012 DT, Haarlem.

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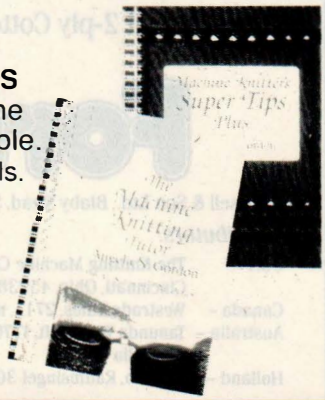
Dorset. BH20 7AX



TRADE ENQUIRIES WELCOME

KNITLINE

for full details of club activities and forthcoming speakers on 0895 833920.

If any knitting club has a 'special' event or details of meetings or membership which they would like mentioned on this page, please write to us at 3 Bridge Avenue, Maidenhead, Berks SL6 1RR. Please allow plenty of time in advance of the date in question as we work to a schedule which is several months ahead and we sometimes receive information which arrives too late for publication in the relevant issue.

Princess Collection

The latest book of patterns from In-Ex is **'The Princess Collection'** (price £5.95 including p&p) which contains eight machine knit patterns for girls aged 3–10 years. Garments include a selection of dresses, skirts and matching tops – all quick and easy to knit in economic 4 ply Acrylic. Many of the patterns require very little yarn and some of

the smaller sizes could be knitted from cone ends. The skirts can be seamed with the appropriate In-Ex Seaming Kit for an excellent finish. Details of kits and other patterns can be obtained by writing to:

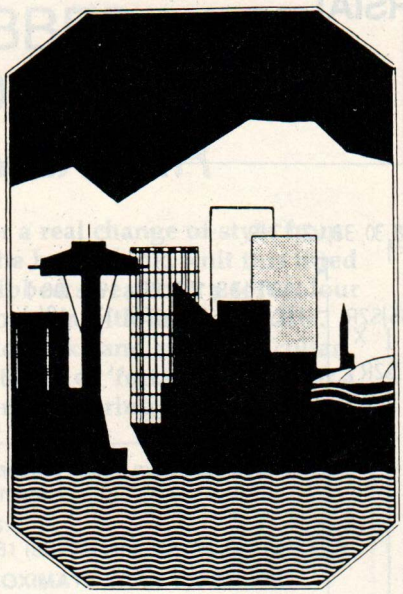
In-Ex Ltd
PO Box 1459
Windsor
Berkshire SL4 2TP

24 Stitch Patterns

Both punchcard and electronic knitters will be able to make use of Anna Stevens' **'Fairisle Designs for 24 Stitch Machines'**. This black and white booklet contains thirty three different ideas for all-over designs, borders and motifs which can either be used individually or combined in a variety of ways to create your own unique pieces of knitwear. A useful introduction is included with helpful notes and tips to help the beginner to feel at ease and the designs are all clearly and neatly laid out in grid format ready for copying onto the mylar sheet or punching on to a punchcard. Each page incorporates design idea notes with illustrations of different garment styles and ways to use the patterns. To get you started, Anna has added a basic sweater and a cardigan pattern in seven sizes from 87 cm to 117 cm bust.

The collection costs £4.50 and, to complement the book, a disc in presentation case is also available for Brother 900, 940/950i machines with Disc Drive for the total cost of £9.00 (post free U.K.). Please make cheques payable to Anna Stevens and send your order to:

Anna Stevens
19 Kirtle Road
Chesham
Buckinghamshire HP5 1AD



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April 10, 11, 12, 1992

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Everett, WA 98203
(206)353-8742

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Red Lion Inn/Sea-Tac, 18740 Pacific Hwy So, Seattle, WA 98188
Or phone: (206) 246-8600
Room Rate: $79 per night (2 beds) per room (Add'l $15 for roll-away)
Please mention seminar to receive special rate.

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APRIL 12th SUNDAY	**Luncheon & Fashion Show 12 - 2 pm** **Seminar 8:30 am - Noon & 2 pm - 5 pm** *(Closed from 12-2 pm)*	$16.50 $25.00	❑ Sun. Lunch/Fashion Show ❑ Sun. Seminar		$16.50 $25.00	
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Pick up tickets at Seminar Registration Desk
MAKE CHECKS PAYABLE TO: **KMC, Inc.**

Mail to: **Knitting Machine Center, Inc.**
7207 Evergreen Wy #Z, Everett, WA 98203

BUGS BUNNY

Design by GARY KENNEDY (INTARSIA)

INTARSIA SWEATER

For 6.5 mm (double knitting) machines with intarsia carriage.

SIZES:
To fit 61 (66, 71, 76–81, 86–91, 96–101) cms, 24 (26, 28, 30–32, 34–36, 38–40) inch bust or chest.

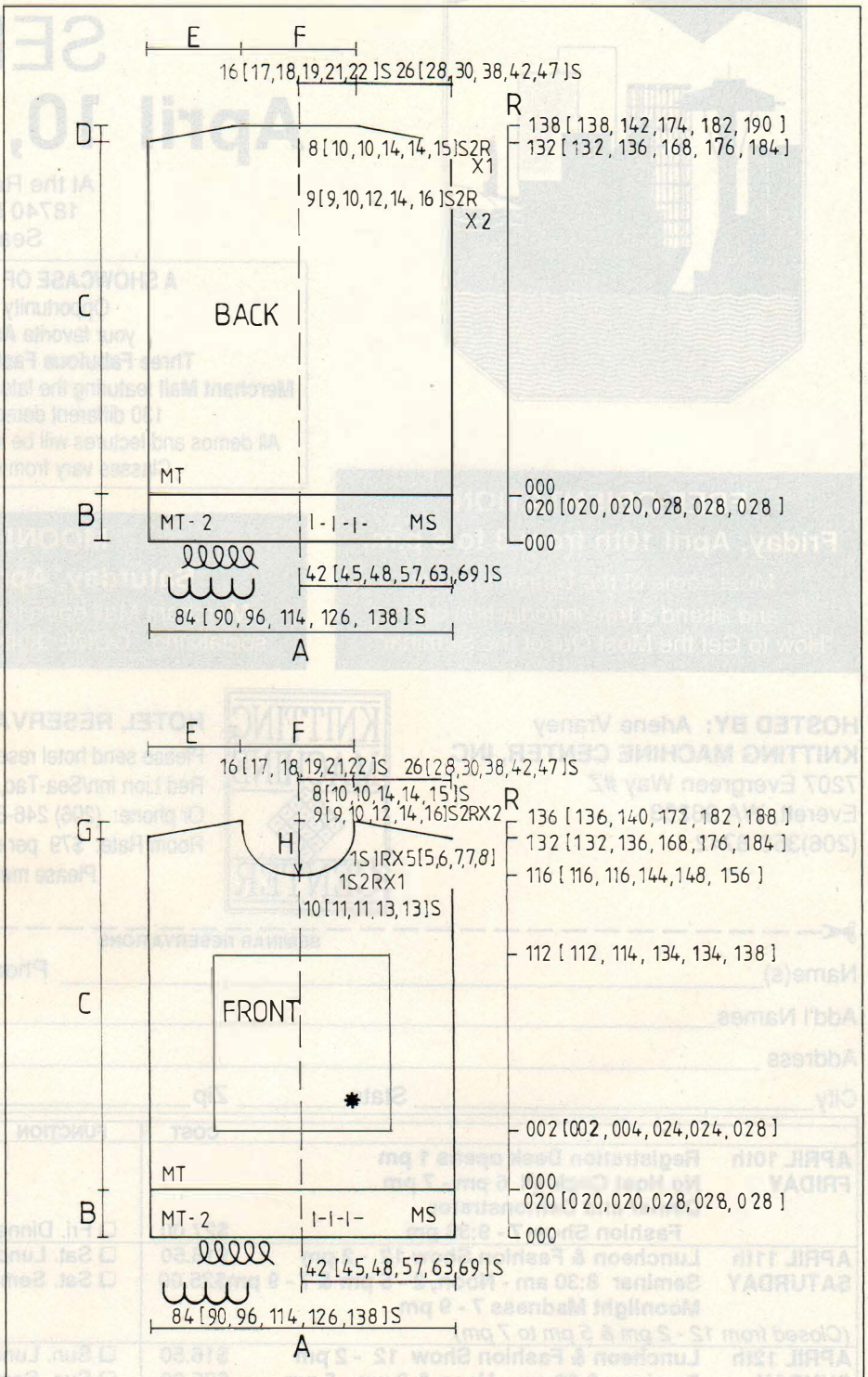
APPROXIMATE YARN TYPES AND AMOUNTS:
Patons Beehive DK.
MS (Scarlet) – 5 (5, 6, 8, 10, 11) × 50 grm balls.
Col 1 (Porcelain Grey) – 1 × 50 grm ball.
Col 2 (White) – 1 × 50 grm ball.
Col 3 (Black) – 1 × 50 grm ball.
Col 4 (Apricot) – 1 × 50 grm ball.
Col 5 (Cameo Rose) – 1 × 50 grm ball.

TENSIONS:
Intarsia and Stocking Stitch – 24 sts and 32 rows to 10 cms. TD at approx 3 (MT).
K1, P1 Rib – 38 rows to 10 cms. TD at approx MT–2.

PATTERN NOTE:
Intarsia – see chart.

If you have any problems locating Patons Beehive DK, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Patons & Baldwins
PO Box 22
Darlington
Co. Durham
DL1 1YQ



BACK
Push 42 (45, 48, 57, 63, 69) Ns at left and right of centre 0 to WP. 84 (90, 96, 114, 126, 138) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Push Ns to HP. Using MS, cast on by hand. Push Ns to UWP. Set RC at 000. Using MT–2, K 20 (20, 20, 28, 28, 28) rows. Drop every alt st and pick up as for ribbing. Set RC at 000. Using MT, K to row 132 (132, 136, 168, 176, 184).

Shape Shoulders
Shape as shown on diagram to row 138 (138, 142, 174, 182, 190). Cast off rem 32 (34, 36, 38, 42, 44) sts.

FRONT
K as for back to row 2 (2, 4, 24, 24, 28) above welt. Cont in intarsia patt

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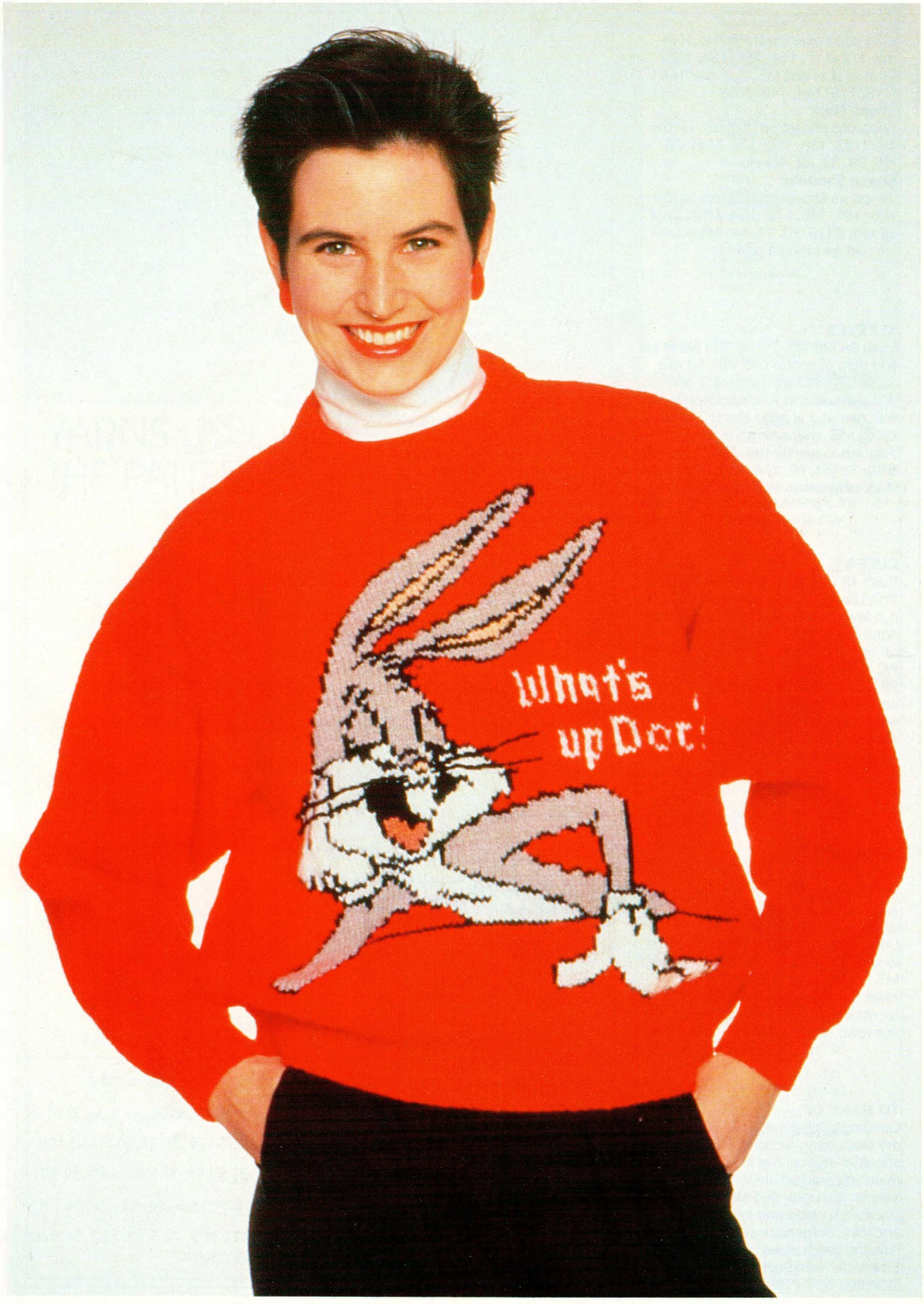

What's
up Doc!

◀8

from chart over centre 80 Ns. K to row 112 (112, 114, 134, 134, 138). Cont in st st and MS, K to row 116 (116, 116, 144, 148, 156).

Shape Neck

Shape as shown on diagram to row 132 (132, 136, 168, 176, 184). 26 (28, 30, 38, 42, 47) sts.

Shape Shoulder

Shape as shown on diagram to row 136 (136, 140, 172, 180, 188). Cast off rem 8 (10, 10, 14, 14, 15) sts. K left part as for right part.

SLEEVES

Push 26 (26, 29, 31, 36, 39) Ns at left and right of centre 0 to WP. 52 (52, 58, 62, 72, 78) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MS, shape as shown on diagram to row 82 (90, 106, 122, 130, 130). 78 (84, 90, 108, 114, 120) sts. Mark centre with WY. Cast off.

CUFFS

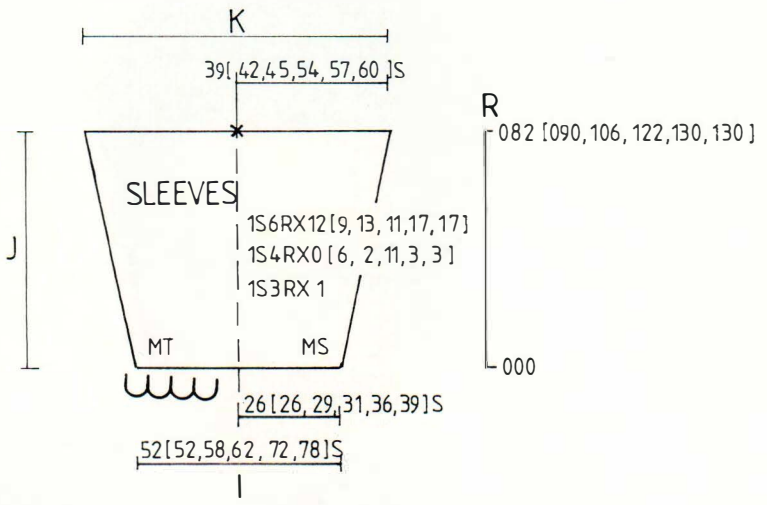
Push 45 (45, 49, 53, 63, 69) Ns to WP. Using MT and WY, cast on and K a few rows ending with carriage at right. Push Ns to HP. Using MS, cast on by hand. Push Ns to UWP. Set RC at 000. Using MT−2, K 20 (20, 20, 28, 28, 28) rows. Drop every alt st and pick up as for ribbing. With wrong side of sleeve facing, pick up sts from below WY and place on to Ns gathering evenly. Using MT, K 1 row. Cast off.

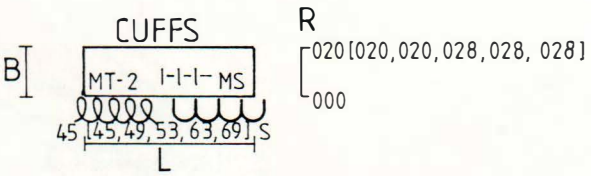
NECKBAND

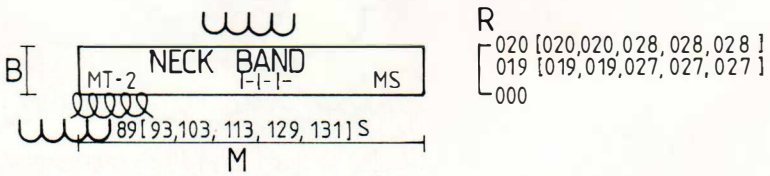
Push 89 (93, 103, 113, 129, 131) Ns to WP. Using MT and WY, cast on and K a few rows ending with carriage at right. Push Ns to HP. Using MS, cast on by hand. Push Ns to UWP. Set RC at 000. Using MT−2, K 19 (19, 19, 27, 27, 27) rows. Drop every alt st and pick up as for ribbing, K 1 row. Using WY, K a few rows and release from machine.

TO MAKE UP

Omitting ribbing, press lightly under a dry cloth using a cool iron. Join shoulder seams. Set in sleeves matching marked sts to shoulder seams. Join side and sleeve seams. Backstitch neckband into position and join centre back seam. Fold in half and catch down on the inside. Embroider using col 3 where indicated by a dotted line on chart.







A = 35[37.5,40,47.5,52.5,57.5]CM	H = 6[6,7.5,8.5,10,10]CM
B = 5[5,5,7.5,7.5,7.5]CM	I = 21.5[21.5,24,25.5,30,32.5]CM
C = 41[41,42.5,52.5,55,57.5]CM	J = 25.5[28,33,38,40.5,40.5]CM
D = 1.75CM	K = 32.5[35,37.5,45,47.5,50]CM
E = 10.75[11.75,12.5,15.75,17.5,19.5]CM	L = 18.5[18.5,20,22,26,28.5]CM
F = 13.5[14,15,16,17.5,18.5]CM	M = 37[38.5,42.5,47,53.5,54.5]CM
G = 1.25CM	

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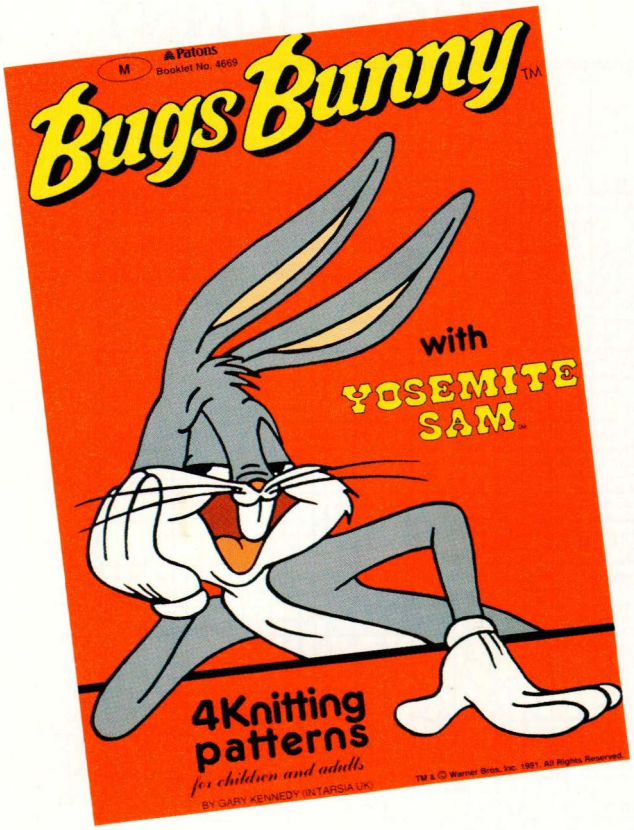

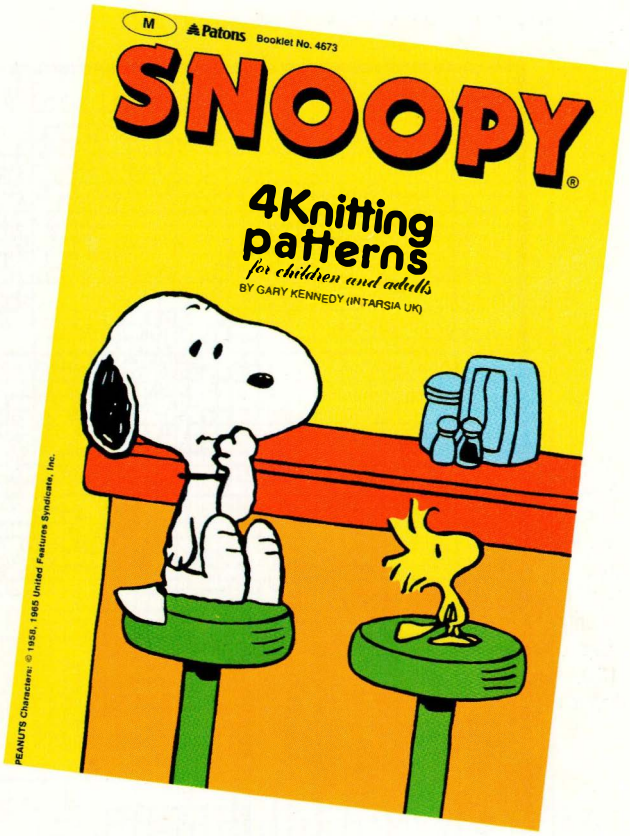

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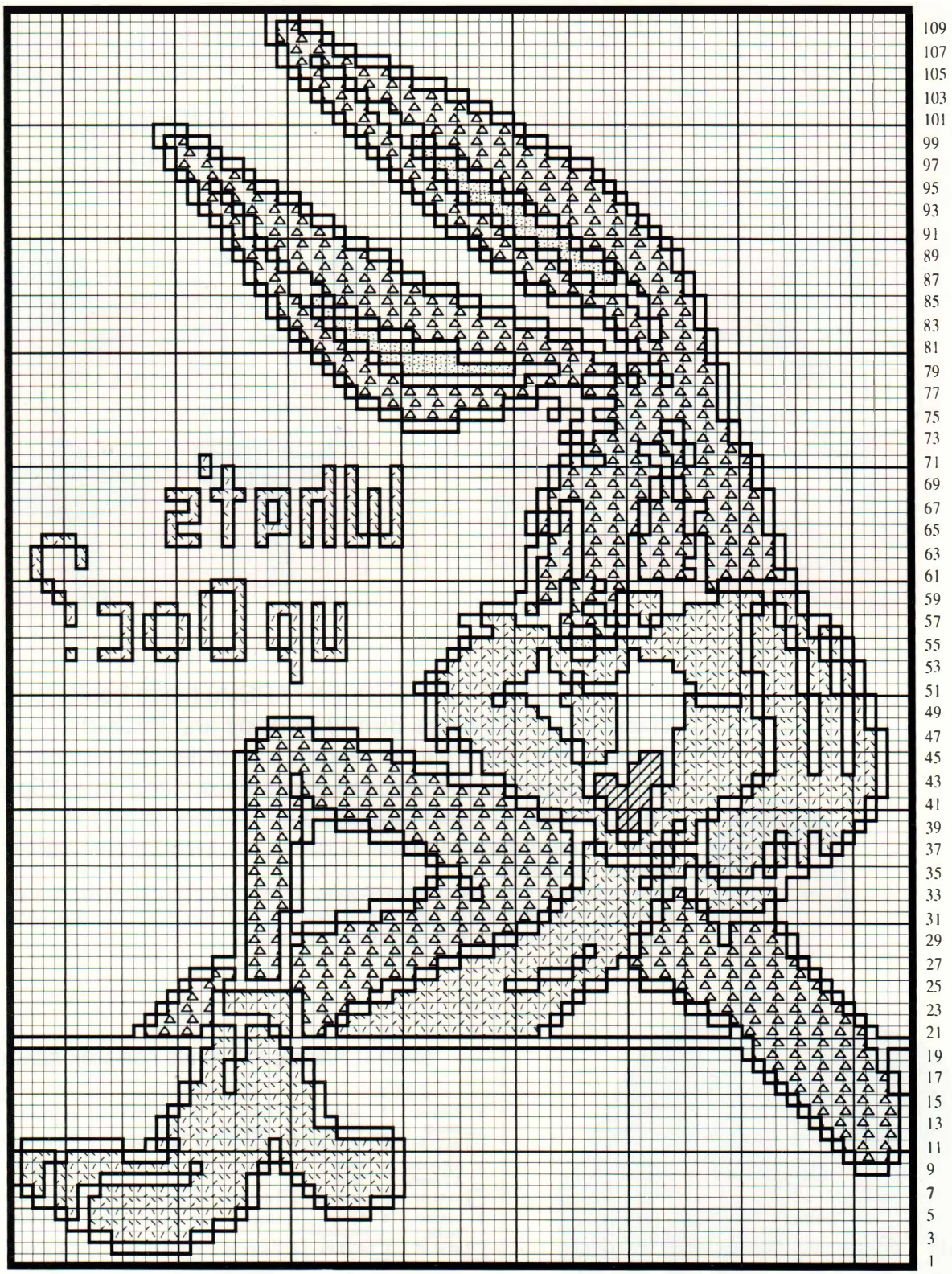

KEY

MS

Black 6955

White 6963

Apricot 6898

Porcelain 6897

Cameo Rose 6812

KNOW YOUR SILVER ELECTRONIC

(Part 1)

By **E**rik **W**eitz

We'd like to welcome our new contributor Erik Weitz, who will be writing an exclusive series of articles for *Modern Knitting* readers. Erik is an international expert in machine knitting, spending much of his time in the UK as well as paying frequent visits to Europe and the USA. Through constant contact with both knitters and knitting companies here and overseas, Erik has built up considerable expertise and knowledge of the latest knitting systems.
In the next few issues he will provide an easy to follow explanation of the workings of the Silver Electronic System together with some important tips for understanding and making full use of the various patterning facilities. The aim is to build up confidence amongst newcomers to Silver electronics and to encourage others to take the plunge by illustrating the simplicity of this new and versatile knitting system.

As we machine knitters know, there are many different knitting machines available throughout the world, bearing a variety of brand names but, basically, these fall within five main operating systems, only four of which are electronic. The five machine types are manufactured by separate companies – three in Japan and two in Europe. Of these, one Japanese company does not yet produce an electronic machine for the domestic market, but concentrates on punchcard only patterning. The other two Japanese and two European makes do have some similarity in actual knitting operation, but their methods of selection, movement of selected needles, and so on, are very different. So too are their electronic design input methods.

This series of articles is not intended to be a comparison of machines, machine types and methods of operation, as this would really serve very little purpose in understanding the electronics of any one particular machine. However, it is useful to be aware of the fact that there are other machines around and companies that make them. This provides competition, which is often the stimulation for improvements and new developments throughout the industry. We, as the knitters, are the ones who benefit from the competition in the market place, with the opportunity to use an ever increasing number of knitting facilities offered by the machines.

The purpose of this series is to concentrate on the electronic knitting machines made by Silver Seiko Ltd. in Japan. Often, these machines bear different brand names (e.g. SILVER REED in the U.K., STUDIO BY WHITE in the U.S.A. and Canada) and it would be very confusing and lengthy to have to read through a list of names, therefore, throughout these articles, the machines will always be referred to as either Silver System, or just Silver.

The variety of machines available from this company is very large and includes models in a selection of gauges to cater for knitting from very fine yarns through to chunky and bulky yarns, using either manual selection, punchcard or electronic formats. Here, we will focus on the electronically controlled machines. Silver Reed are one of the market leaders in this field, as well as one of the world's innovators.

The main big plus with the latest Silver electronics is that the electronic operation section is common throughout the range of machines. This means that being separate, external components, the PATTERN CONTROLLER EC1, and the DESIGN CONTROLLER PE1, will connect and operate with all the models in the range – from the fine gauge through the standard gauge, right up to bulky gauge. Not only does this make life much easier, in so far as only having to learn how to operate the system once for all machines, but also means that as new machine developments come along, the Pattern and Design Controllers will operate the new equipment i.e. both current and future machines – a truly **'Modular System'**.

The purpose of these articles is to enable the knitter to gain a little knowledge and insight into what electronics do and how the machine operates. Once the basics are understood, working the equipment and, often more importantly, resolving a problem, becomes much easier. It is not intended to make you an

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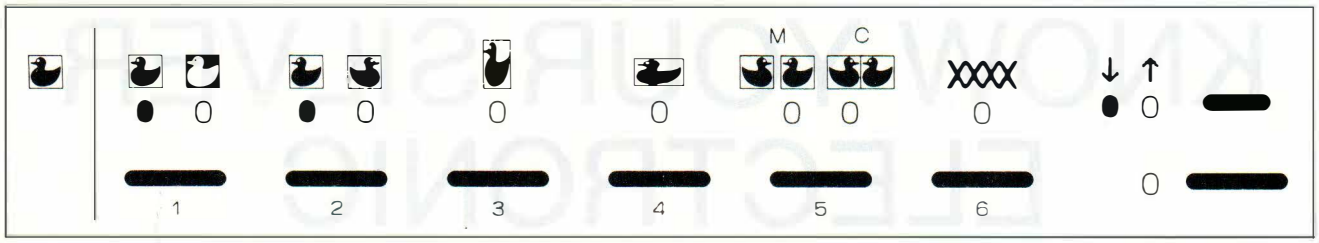


Pattern Panel

electronics expert, nor to enable you to dismantle the machine for service – but to provide you with a background of what the machine is, or is capable of, and how to utilize this to your full advantage.

Starting this time with the **Pattern Controller EC1**, we will look at some of the main parts, what they do, and why. You will, of course, find details on this in your instruction manual, but let us look at them again briefly for the benefit of those readers who do not have Silver machines, or newcomers to Silver System knitting. For a photograph of the Pattern Controller please refer to page 37.

The Pattern Controller is an oblong box with a slit at the back for insertion of pattern cards. In front of this slot is the **'Pattern Panel'**, which contains a series of buttons, graphics and lights, which control the way the pattern is read, changed, added to, and sent to the knitting machine itself. This is the 'heart' (or rather, 'brains'), of the whole system. Although the panel itself is very simple, and the number of buttons few, there are many combinations available, allowing a multitude of knitting options. The simplicity of arrangement makes learning the operation of the Pattern Controller easier. There would be no point in cluttering up the panel with a button to select every possibility, when a combination of those already there will perform the operation necessary. So what we are in fact looking at, is a simple set of controls which is capable of very sophisticated electronic wizardry.

PATTERN SWITCH 1
Colour reversal switch

This enables you to change the background colour with the pattern (contrast) colour. If the left light is on, the background is knitted in the yarn in feeder 1, and the pattern with the yarn in feeder 2. With the right light lit, the background knits with the yarn in feeder 2, whilst the pattern knits with yarn in feeder 1.

This is a very useful switch which has more uses than for Fair Isle alone, as we shall see.

PATTERN SWITCH 2
Horizontal direction reverse switch

With the left light on, the pattern will be knitted in reverse of how the card is drawn, when looking at the knitted fabric from the knit side. So, letters and figures will be reversed in the knitting. For example, the letter 'B' would face the wrong way.

With the right light on, the direction will be reversed when viewed on the knit side of the fabric. Our example letter 'B' will come out the right way round. I remember this by thinking 'For **WRITING**, use the **RIGHT** light'.

PATTERN SWITCH 3
Vertical stretch

When this light is on, each row on the pattern card will knit twice, thereby making the pattern twice the drawn length.

PATTERN SWITCH 4
Horizontal stretch

With this light on, every stitch is doubled on the width. The reader reads each square on the card twice over the width of the pattern, making it twice as wide as the card drawing in the knitting.

PATTERN SWITCH 5
Horizontal mirror image

There are two lights – left marked **'M'** and right marked **'C'**. With the left light on, the pattern will be mirrored horizontally, **'M'**, repeating every stitch of the whole pattern to the right of the original, but with the image reversed. The right light does exactly the same thing, but instead of repeating the whole pattern, it will omit the first stitch at the left of the mirrored image. This is illustrated very well in your manual.

PATTERN SWITCH 6
Jacquard knitting

This is used mainly for knitting what is termed 'double jacquard' by many knitters, in conjunction with the ribber bed to produce floatless, double faced fabric. Any Fair Isle card can be used for double jacquard. The card will be read twice on every row for the two colours used, so this means that every row on the card will involve four carriage movements, before moving the card on to read the next row.

DIRECTION SWITCH

With the **left** light on, the pattern card will read into the Controller **downwards**, which means that the pattern will be read from bottom to top. With the **right** light on, the card will read **upwards**, reading the pattern from top to bottom.

This is a very useful feature that can be programmed direct from the card, making it read from bottom to top or top to bottom every time, or even bottom to top, then top to bottom. This last option causes a **vertical mirror pattern**, which is why there is no vertical mirror pattern switch, it being unnecessary.

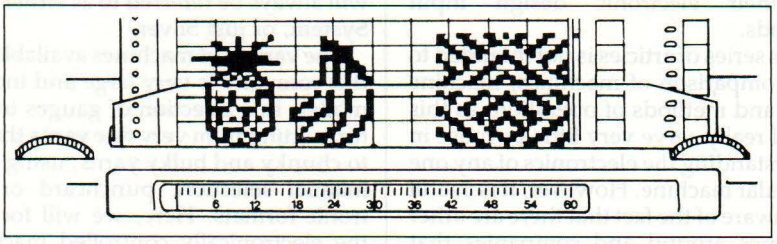
INSPECTION SWITCH

If this light is on, the pattern card reader is inactive, and the card will be fed upwards ten rows and remain there, even if you knit, or move the carriage. With the light on, the card is fed down into the reader and then scanned row by row. Normally, the card is read row by row as you knit, responding to your movement of the carriage.

If, like me, you were a little confused at first by what is happening when the light is on or off, this may help – **'Light on means HOLD ON. Light off means OFF WE GO'.** By using this, I soon got the hang of what was happening and now it is no problem!

PATTERN WIDTH INDICATOR

This is a long, slim window below the card slot, with a wheel at each side. In the window, there is a scale from one to sixty and two red pointers that are moved by turning the wheels. What this clever little arrangement allows you to do, is select specific sections from the card width to read as pattern. So, by



Pattern Width Indicator

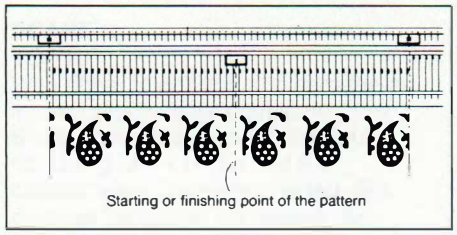
setting the left pointer to say 10, and the right pointer to 46, you are telling the Controller to read only that section of the card between squares 10 to 46. This facility allows you to draw more than one design on the width of the card, and also allows you the choice of selecting only portions of larger designs.

Inside the Controller, it is as if a little shutter, rather like a window blind, is brought across in front of the card to the left of the left pointer and to the right of the right pointer, thus stopping the reader from reading beyond these points. This is a mechanical simile for some very clever electronic thinking.

POINT CAMS AND NEEDLE ONE CAM

These little plastic chaps slide along the rail behind the needle bed and are used to tell the carriage where the pattern knitting is to take place. Patterning only takes place between the Point Cams, not outside them.

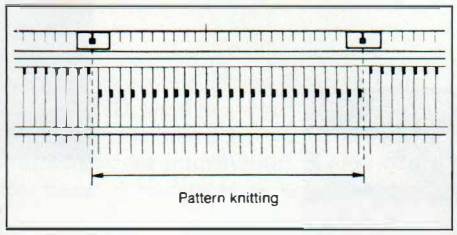
The **Needle 1 Cam** is a small plastic block that fastens to the bed in any position you require. What it does, is tell the carriage where to start and finish a pattern repeat. It may be placed anywhere



Needle 1 Cam

on the bed, as long as it is between the Point Cams.

As well as the basic functions outlined above, these parts have further electronic functions to drive parts of the machine. For instance, the **Point Cams** tell the Controller where you are within the length of the pattern and send a message



Point Cam

to move on to the next pattern row, et cetera. You must always, therefore, pass both Point Cams in every row of knitting, or the machine will mispattern. The **Needle 1 Cam** must always be positioned at some point within the needles marked by the Point Cams at the start of knitting so as to position the pattern correctly on the fabric. If, as a result of garment shaping, the Needle 1 Cam is outside the knitting area, don't move it, but ensure that the carriage passes it in order to keep the patterning correct.

Think of the Point cams as **'Pattern Pointers'**, telling the machine where to start and end patterning, the Needle 1 Cam as a **'Pattern Placement'** cam, denoting the start of a repeat.

In this session, we have gone over the basics of the main pattern creation facilities of the Controller that many of you, I am sure, know quite well. A little revision never goes amiss, however, and next time we shall be looking at what is actually happening when we use the Pattern Controller to knit a pattern – not only the obvious, which you can see, but also the electronics inside the machine which transfer the pattern to the needles and so on.

All diagrams reproduced courtesy of Silver Reed

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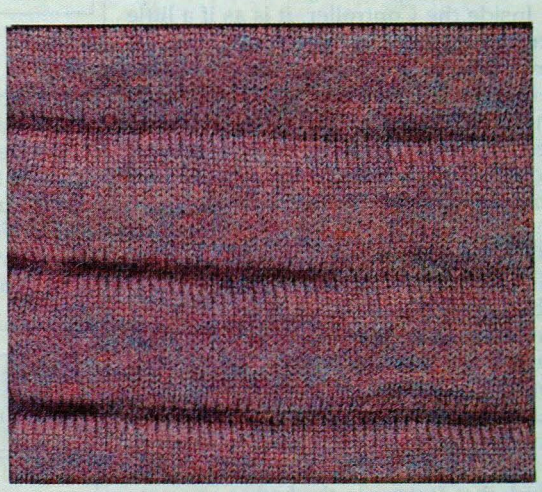

FINISHING TOUCH

By Angela Gordon

Quilted fabric, which is expensive to purchase, has many uses in every day life. Some of the more common uses are tea cosies, cot and pram quilts, dressing gowns and body warmers. Our knitting machines are capable of producing some interesting quilted fabrics on either the single bed or with a ribber. This month, Angela illustrates some simple quilted fabrics and describes how to make them.

For these samples you will need some 4 ply yarn and some wadding, which can be purchased from most fabric suppliers. Alternatively, just for your samples, ordinary toy stuffing could be used. Some years ago I made a quilted anorak for my daughter and I have been using the left over wadding in classes and demonstrations ever since.

The wadding has to be cut into strips to fit into the space between the two layers of fabric, but I usually knit to the top of the first quilted section before cutting. I then cut one strip, which must be about half the size of the knitted rows to allow for the thickness of the wadding (if you insert too thick a piece it will produce a very stiff uncomfortable fabric – just experiment at first until you get the feel you like). Insert the wadding between the two layers of knitting and, after cutting the first strip to the correct size, remove it from its 'home' and cut the remaining strips required to the same size.

SAMPLE 1

This sample is knitted on the single bed, which allows you to use any stitch pattern of your choice on the right side (or on both sides for that matter). I have used Forsell Shamal on tension 5 which is slightly tighter than normal because I do not want the wadding to show through the stitches. Card 12 can be broken down to a 12 row repeat, so I decided to use this for my quilted design.

Start by knitting the backing fabric, so cast on (60 stitches for a sample) and knit 12 rows in colour 1. Change to colour 2 and knit 12 rows. Continue knitting 12 rows in each colour until you have as many stripes as you want quilted sections – four or five sections are adequate for a test sample. Changing colour to form stripes will help when it comes to picking up stitches along a straight row after inserting the wadding. If you prefer a plain backing you could knit every 12th row at a loose tension to indicate the correct row for picking up the stitches. After the last 12 rows, change colour and knit 4 rows, then make a tiny hem by picking up the stitches from the first of the last 4 rows.

Insert the punchcard and lock on row 1. Knit one row then set machine for Fair Isle and knit 12 rows in pattern. Look at the backing fabric and where the colour changes for the last stripe knitted before the hem, pick up two stitches at each end of the row. Now cut the wadding to fit into the doubled fabric. Press it into place and, carefully tucking the wadding in with your fingers (avoiding catching it on the sinker posts), pick up the rest of the stitches along the row of the colour change. Continue knitting 12 rows in Fair Isle, inserting wadding and picking up along the next row of colour change. When you reach the last section, pick up the cast on stitches, knit one row and cast off.

Single bed quilting is also very effective knitted in tuck stitch and slip stitch, still using the knit side as right side, as both stitches produce lots of texture in the fabric. If you wish to quilt vertically as well as horizontally, leave a stitch out of work where you require the fabric to be joined vertically when knitting the backing. As you knit the front of the fabric you can pick up the ladders created by the needles left out of work on every row, or every alternate row pick

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up two ladders. This would produce an effect very similar to Sample 3 which is knitted with a ribber.

SAMPLE 2

For this sample the ribber is used in circular (tubular) knitting. Cast on in the usual manner for full needle rib with one zig zag row and two circular rows, then knit one row as rib (all needles on both beds knit). Set the main bed to slip to the right and the ribber to slip to the left (circular knitting again). The main carriage should have the cam lever on 'S' with the left side lever back and right side lever forward (towards you) and no punchcard in the reader. The ribber should have the right set lever down, on 1 and the left set lever up, on 0 (Silver Reed machines).

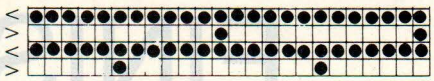
Knit 40 rows circular – this is only 20 rows on each needle bed! Lower the ribber one notch and fill the space with a suitable size length of wadding. Raise the ribber again and set both beds to knit full needle rib. Knit two joining rows and then return to circular knitting for the next quilted section. Continue until you have the number of sections you require. Fill and join the last section and then transfer all stitches to the main bed and cast off.

SAMPLE 3

This is the same as Sample 2 in the setting of the carriages but only 30 circular rows are knitted for each section. The vertical quilting is achieved by bringing every tenth needle on the main bed to holding position when knitting to the right (the rest of the main bed needles will slip but these will knit, thus joining the two layers of fabric). When the ribber is lowered one notch you will see that you have several compartments to fill with little squares of wadding. Raise the ribber and knit two joining rows and then, for the second section, bring alternate tenth needles to holding position. This will place the quilted squares in a brickwork arrangement. However, there is no reason why you should not have them vertically above one another if you so wish.

Should you wish to knit a garment in this design I recommend that you punch out a card as shown to speed up the knitting. This does mean that the vertical lines would have to be made on every twelfth stitch instead of ten. To keep the proportions correct you should knit an extra four rows in each section.

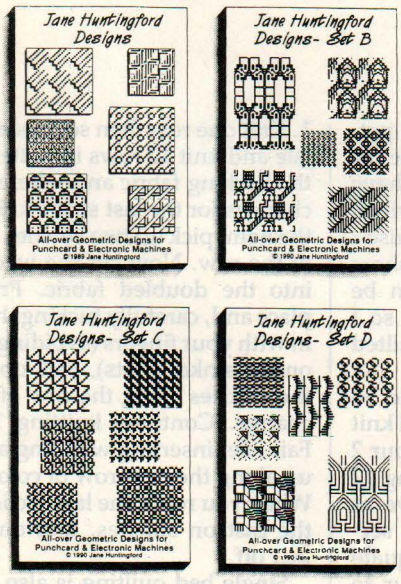
Sample 3



● = punched hole
< = knit to left
> = knit to right

Another method of quilting that I have tried successfully and which you might like to try for yourself is quilting the knitted fabric to a purchased fabric backing. Knit a rectangle in your chosen stitch pattern, one with definite outlines works best. Cut a piece of fabric approximately 3 cm larger all round than the knitted fabric. Sandwich the wadding between the two layers and tack them together. Quilt, following the pattern lines using a sewing machine or hand sewing. Fold the excess bought fabric to the right side and turn under the raw edges. Neatly sew around to create an edging.

Geometric designs for 24 stitch punchcard and electronic machines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Jane Huntingford Designs- Set B
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All-over Geometric Designs for Punchcard & Electronic Machines

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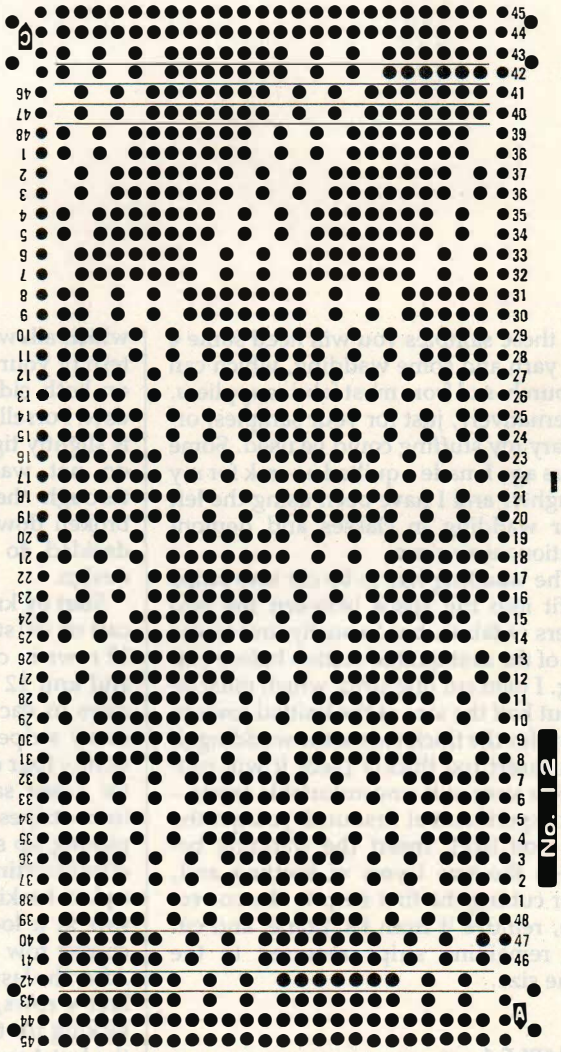
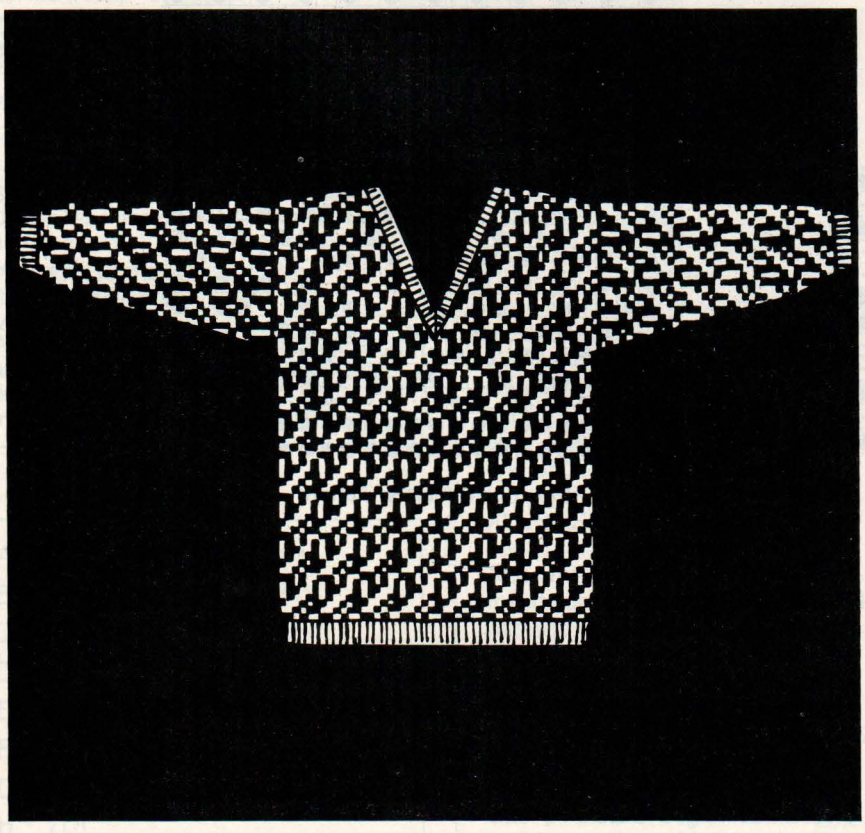


Punchcard 12 – Courtesy Silver Reed

GEOMETRIC GALLERY

By Jane Huntingford

Jane's exclusive collection of fabric designs continues this month with more creative ideas for short float Fair Isle patterns and borders using geometric inspiration.



'FACET'

The increasing popularity of my booklet *Jane Huntingford Designs – Set C*, in which every design has very short floats, has influenced this month's design. I set out to design a knitted fabric suitable for all the family, especially with children in mind, as tiny fingers do not get caught so easily in very short floats. I did not start with a particular theme in mind – the design just evolved. As you can probably guess, I've been doodling again! In my opinion the end result is extremely versatile and interesting. I simply had to name this design 'Facet' as it features so many aspects from so many angles.

DESIGN IDEAS

'Facet' is an all-over geometric pattern which is suitable for 12 and 24 stitch punchcard and electronic machines. I have also included a border design (12 stitch repeat) which can be used either with the all-over pattern or on its own.

The effect of the design changes by experimenting with various colours and yarn combinations. A dark background with a light colour as the contrast makes the diagonal effect on the all-over pattern more prominent. For a softer look, use more subtle shades of yarn. For a flamboyant look for special evening

20▶

wear, use a dark background such as black or midnight blue with gold metallic yarn as the contrast. Younger members of the family look great in bright primary colours for a young, lively, energetic feel.

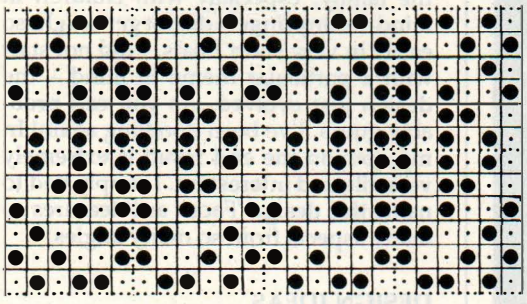
Sample 1
(Punchcard and Electronic Machines)
'Facet' all-over design used together with 'Facet' border pattern. Mercerised Cotton 4 ply (lilac background/grey contrast).

Sample 2
(Punchcard and Electronic Machines)
'Facet' border design using repeat twice (= 24 rows). This design can also be used as an all-over pattern. Yarn and colours as Sample 1.

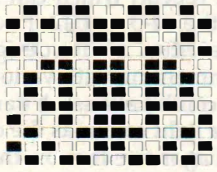
Sample 3
(Electronic Machines)
'Facet' all-over design using the RE-FLECTION pattern variation facility – the point of contact between patterning is overlapped for one row. Mercerised Cotton 4 ply (grey background/navy contrast).

Sample 4
(Electronic Machines)
'Facet' all-over design using DOUBLE WIDTH and LENGTH pattern variation facilities.

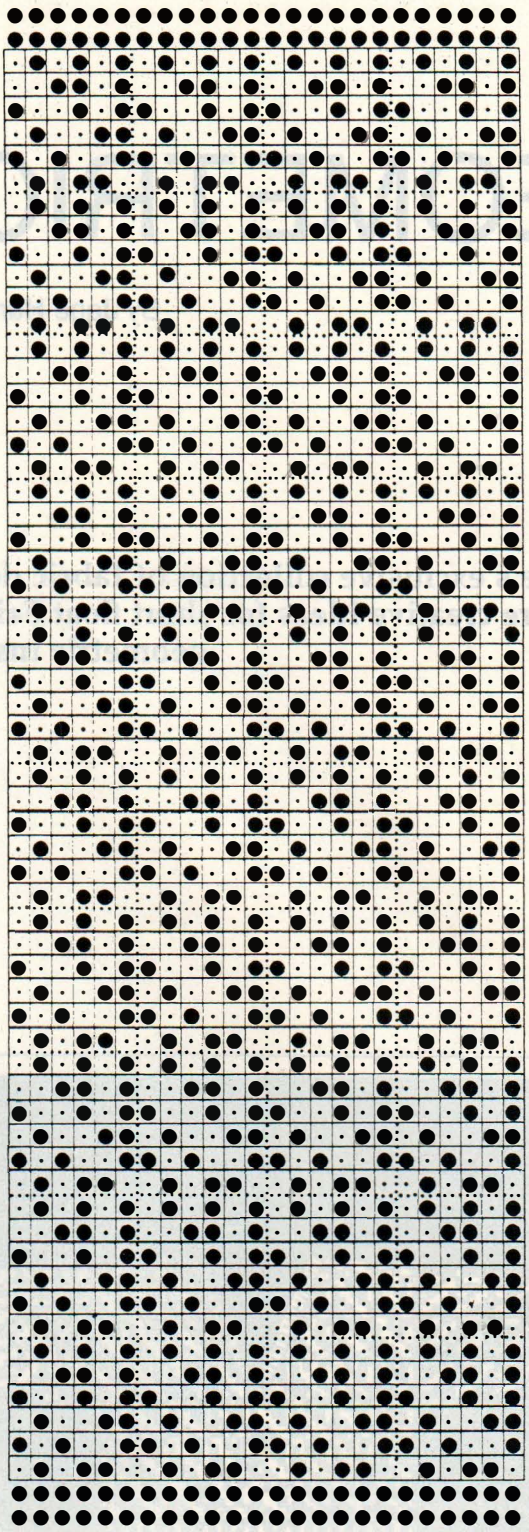
Yarn as Sample 3 (navy background/grey contrast).



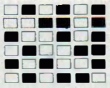
Punchcard Border Pattern



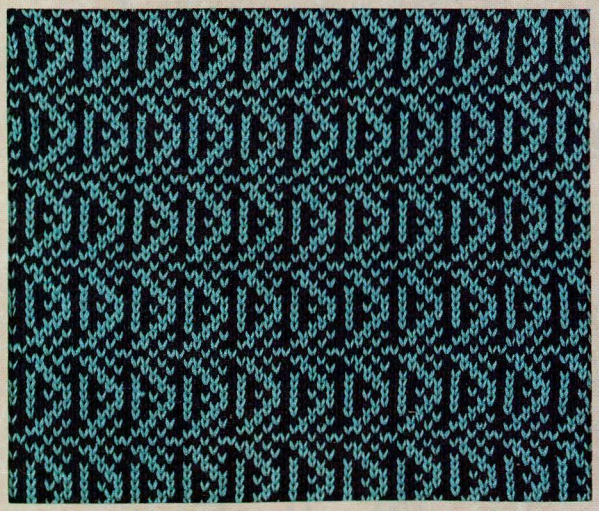
Electronic Border Repeat

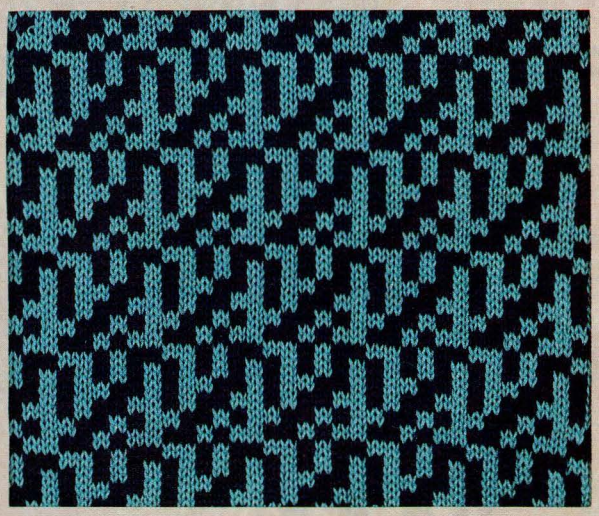


Punchcard All-over Pattern



Electronic All-over Repeat





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THE SWATCH SPOT

By Angie

Knitwear By Design

Versatility is the theme for this and next month's Swatch Spot. Knitting is a versatile way of creating exciting fabrics – each single stitch gives us a choice of colour and texture. There are two sides to every piece of knitting, each creating a different pattern and texture that we can use. I have again taken inspiration from Maori tribal art to produce two designs – both work well, whichever side you choose to use. This time, I have concentrated mainly on the pattern, adding just a few knitted cords and beads to start you thinking. Of course, you can add more beads along each cord or add more cords as you wish.

All the samples work well for women's and children's knitwear. For men, leave out the decorative effects and make the most of the pattern design – try using black with a bright red or blue. If you decide to use this technique to add beads on to children's wear, please make sure that the beads are very secure and that the cords are not used in areas which could cause harm. Do not use cords on sleeves or anywhere on garments for very young children. The beads I have used are 9 mm washable plastic 'Barrel Beads' made in the U.S.A. by 'The Beadery' Craft Products. They are available in the U.K. from most craft, fabric or wool shops. Always wash garments trimmed in this manner with the beads turned inwards for protection.

FABRIC INSTRUCTIONS

Yarn Used:

Brockwell Yarns Mercerised Cotton 4 ply (all samples).

Cols – russet red, sage green and denim blue (see individual swatch instructions).

Cords: Work cords as instructed in your knitting machine manual. My cords are worked over 4 needles using approximate tension 2. I used the circular cord technique and knitted 350 rows for each cord. This allows enough length for use across the width of the samples. Unused rows can be unravelled at the end and secured neatly, sewing in the end of yarn to finish off.

SWATCH 1

(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – red
Col 2 – blue

*** Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 1 and lock on row 1. Using Col 1, cast on and knit 20 rows stockinet. Release card and set carriage for Fair Isle. With Col 1 in feeder 1 and Col 2 in feeder 2, knit 8 rows.

* Lock card. Set carriage for stockinet. ***

With Col 1 in feeder 1 only, knit 4 rows.

Release card and set carriage for Fair Isle. *

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 88 rows (i.e. 2 repeats of main pattern).

** Repeat from * to *.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 8 rows.

Remove card. Set carriage for stockinet. **

Using Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Give swatch a light steam.

SWATCH 2

(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – red
Col 2 – green

* Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 2 and lock on row 1. Using Col 1, cast on and knit 20 rows in stockinet.

Release card and set carriage for Fair Isle. *

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 120 rows (i.e. 2 repeats of the pattern).

Remove card. Set carriage for stockinet.

24▶

Using Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Give swatch a light steam.

SWATCH 3

This is knitted as for Swatch 1 but reverse the colours: Col 1 – blue, Col 2 – red. First, knit one blue and two red cords (see above). Thread beads on to cords with a tapestry needle as follows:

Red cords– one blue, one red, one blue, four times.

Blue cords – one red, one blue, one red, four times.

Work as for Swatch 1 from *** to ***. Now hook up one red cord as shown in **Fig 1.**

Release card and set carriage for Fair Isle. With Col 1 in feeder 1 and Col 2 in feeder 2, knit 44 rows.

Now hook up blue cord as shown in **Fig 1.**

Reset card and carriage to repeat the main part of the Fair Isle pattern.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 44 rows.

Work as for Swatch 1 from ** to **.

Now hook up last red cord as shown in **Fig 1.**

With Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Unravel any unused cord rows and fasten off. Give swatch a light steam, avoiding cords and beads.

SWATCH 4

This is knitted as for Swatch 2 but reverse the colours: Col 1 – green, Col 2 – red.

Knit three red cords as instructed above.

Using a tapestry needle, thread four green beads on to two red cords and three green beads on to one red cord.

Work as for Swatch 2 from * to *.

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 8 rows. Now hook up one red cord with four beads as shown in **Fig 2.**

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 50 rows.

Now hook up red cord with three beads as shown in **Fig 3.**

With Col 1 in feeder 1 and Col 2 in feeder 2, knit 58 rows.

Now hook up last red cord as shown in **Fig 2.**

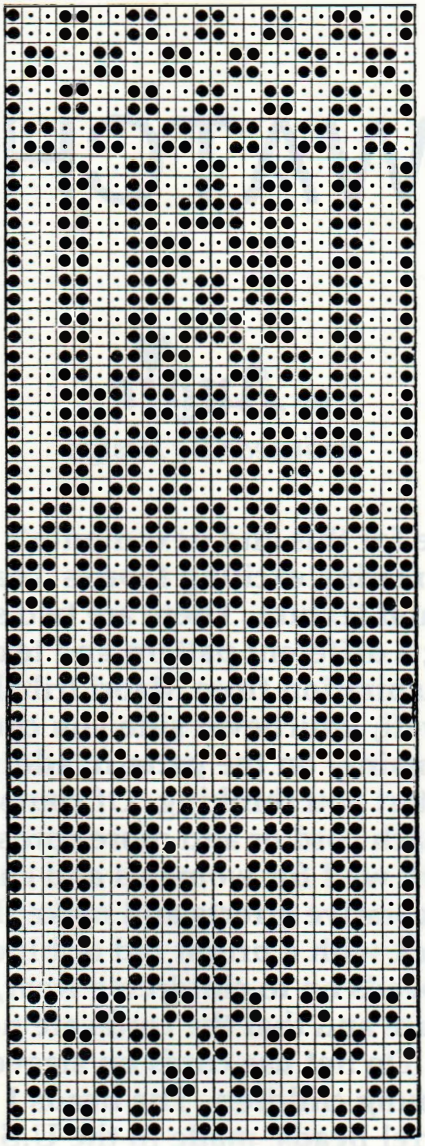
With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.

Remove card. Set carriage for stockinet.

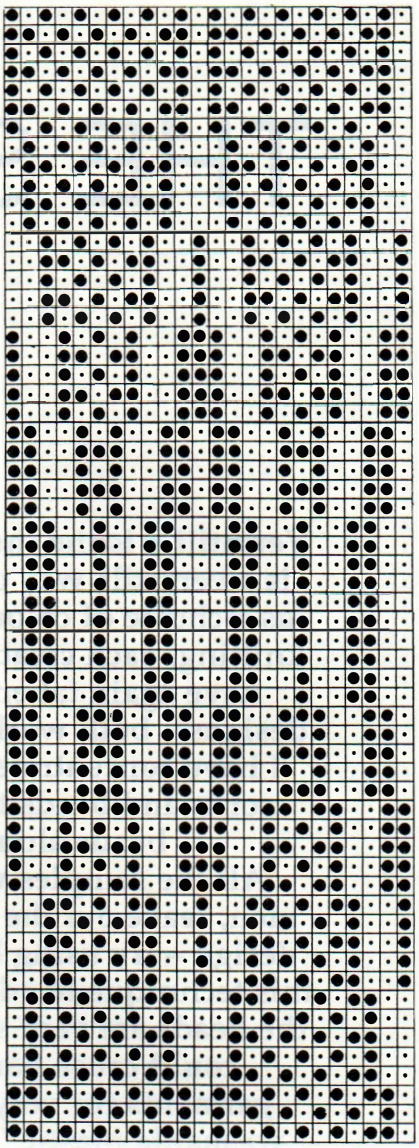
With Col 1 in feeder 1 only, knit 20 rows. Cast off. Sew in ends. Unravel any unused cord rows and fasten off. Give swatch a light steam, avoiding cords and beads.

NOTES

1. Keep cord taut. Cord will drop when it comes off the machine.
2. Hook up 2 sts from cord onto 2 sts on needlebed.
3. Hold beads down for first two rows after hooking up cord.



Card 1



Card 2

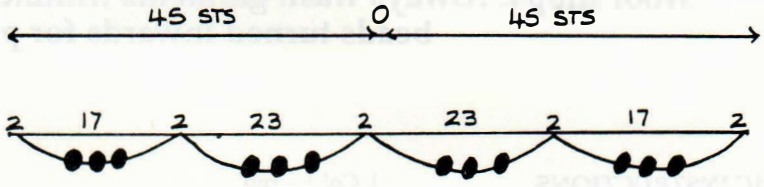


Fig 1

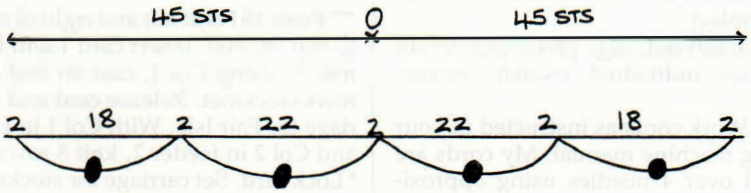


Fig 2

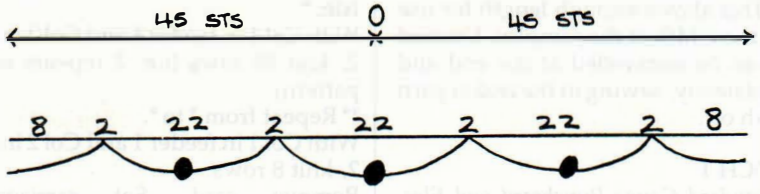
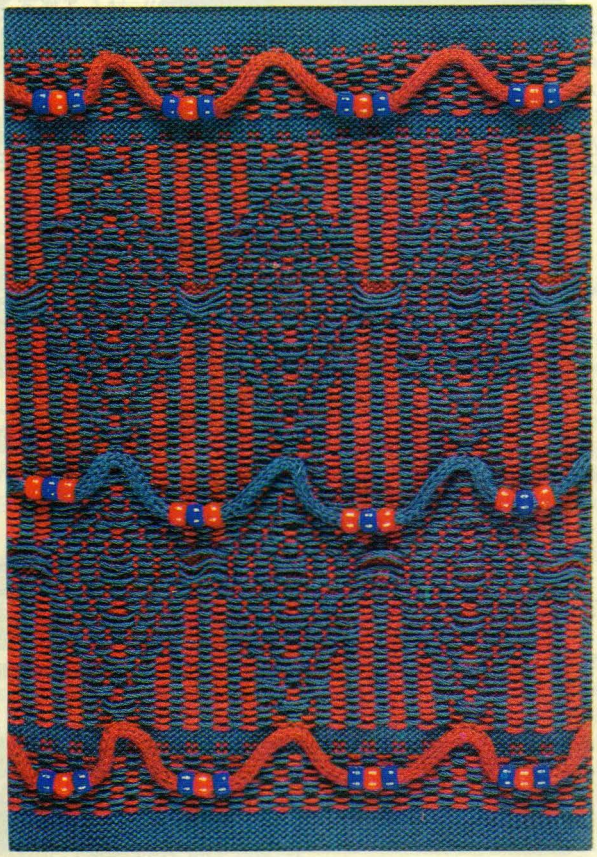
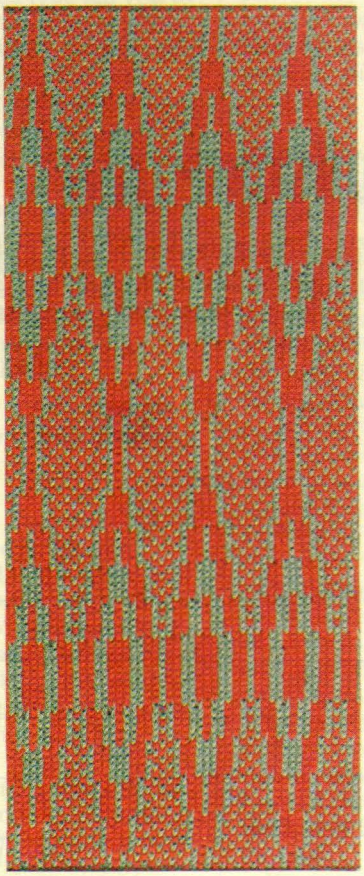
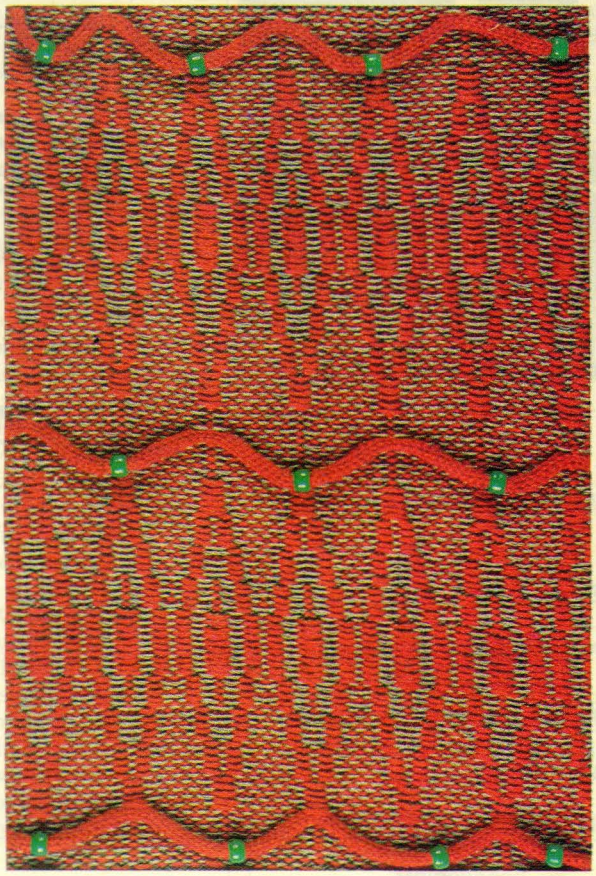


Fig 3







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THE *Baby* COLLECTION

FEATURING

Denys Brunton Designer Yarns

TUCK STITCH CARDIGAN

A basic raglan style with round neckline which, in textured tuck stitch, should prove popular for any baby's wardrobe. Knit several of these useful tops in different colours to co-ordinate with leggings or dresses.

For standard gauge punchcard and electronic machines.

SIZES:
To fit 41 (46, 51, 56, 61) cms, 16 (18, 20, 22, 24) inch chest.

APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton Duette (knits as 3 ply).
Col 1 (White) – 1 × 350 grm cone.
6 (6, 6, 7, 7) buttons.

TENSION:
Tuck Stitch – 30 sts and 64 rows to 10 cms.
TD at approx 5 (MT).

PATTERN NOTE:
Tuck Stitch – see chart.
Use a double ended transfer tool for raglan shapings.

If you have any difficulty locating Denys Brunton Duette, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Denys Brunton Designer Yarns
Moorland Mills
Law Street
Bradford Road
Cleckheaton
West Yorkshire BD19 3QR

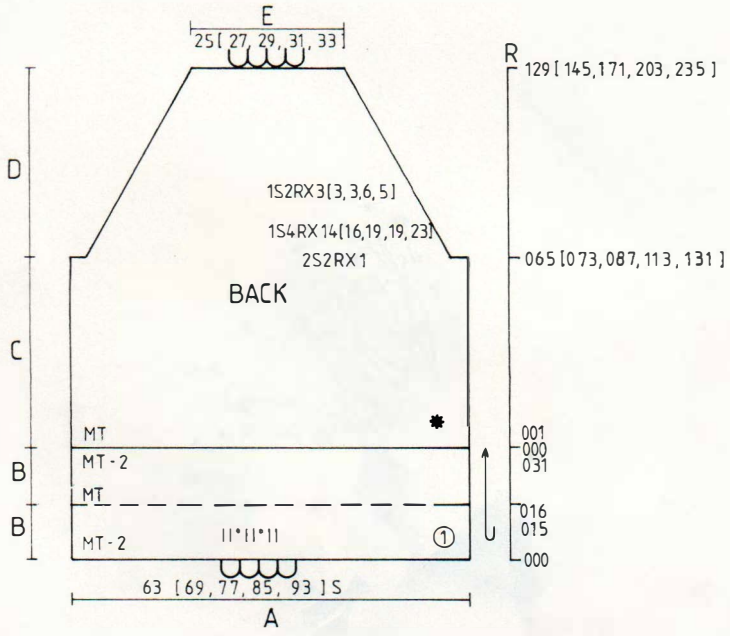
BACK
Push 63 (69, 77, 85, 93) Ns to WP. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 1, K 15 rows. Using MT, K 1 row. Using MT – 2, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 1 row. Cont in tuck st patt. K to row 65 (73, 87, 113, 131).

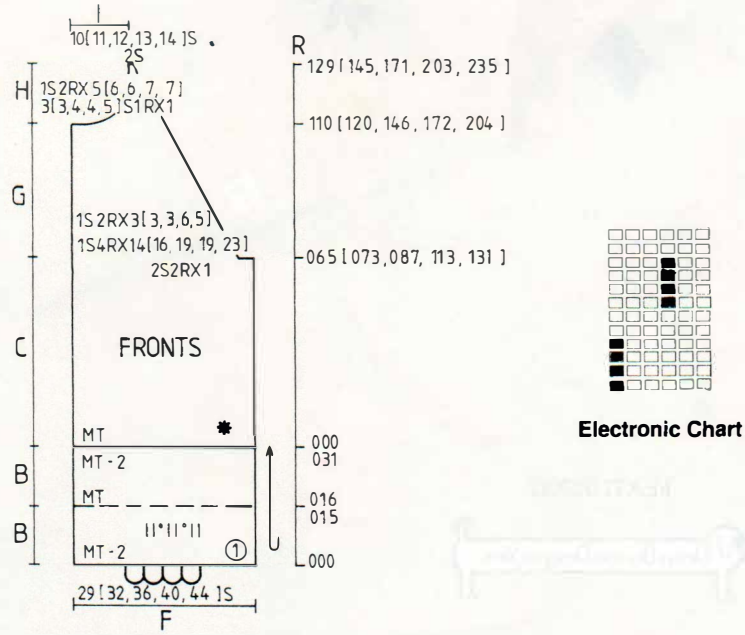
Shape Raglan Armholes
Shape as shown on diagram to row 129 (145, 171, 203, 235). Using WY, K a few rows in st st over rem 25 (27, 29, 31, 33) sts and release from machine.

LEFT FRONT
Push 29 (32, 36, 40, 44) Ns to WP. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 1, K 15 rows. Using MT, K 1 row. Using MT – 2, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 1 row. Cont in tuck st patt. K to row 65 (73, 87, 113, 131).

Shape Raglan Armhole
Shape as shown on diagram to row 110 (120, 146, 172, 204).

Shape Neck
Shape as shown on diagram to row 129 (145, 171, 203, 235). Cast off rem sts.





Electronic Chart

RIGHT FRONT
K as for left front but in reverse.

SLEEVES
Push 41 (43, 45, 49, 51) Ns to WP. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 1, K 15 rows. Using MT, K 1 row. Using MT – 2, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 1 row. Cont in tuck st patt and shape as shown on diagram. 51 (57, 63, 69, 75) sts. K to row 65 (81, 97, 119, 155).

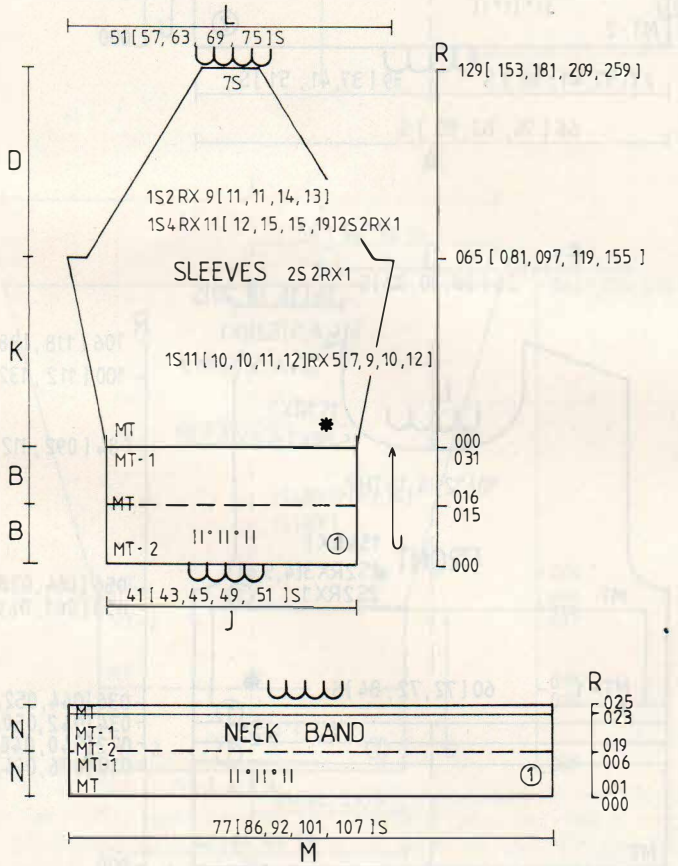
Shape Raglan Top
Shape as shown on diagram to row 129 (153, 181, 209, 259). Using WY, K a few rows in st st over rem 7 sts and release from machine.

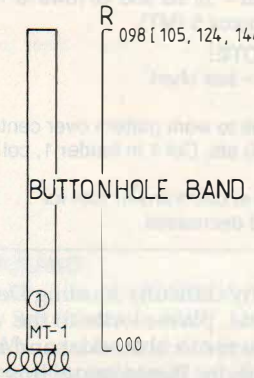
NECKBAND
Join raglan seams. Push 77 (86, 92, 101, 107) Ns to WP. With right side facing, pick up 18 (21, 23, 26, 28) sts up right side of neck, 7 sts across top of sleeve, 25 (27, 29, 31, 33) sts across back of neck, inc 2 (3, 3, 4, 4) sts evenly, 7 sts across top of sleeve and 18 (21, 23, 26, 28) sts down left side of neck and place on to Ns. Unravel WY. Set RC at 000. Using MT and col 1, K 1 row. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT – 1, K 5 rows. Using MT – 2, K 13 rows. Using MT – 1, K 4 rows. Push Ns from NWP to WP and place loop from row below adjacent st on to empty N. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

BUTTONHOLE BAND
Using col 1, cast on 17 sts by hand. Set RC at 000. Using MT – 1, K 4 (5, 7, 6, 6) rows. * Counting from each end, make buttonholes over 4th 5th and 6th sts. K 18, (19, 22, 22, 26) rows. Rep from * 4 (4, 4, 5, 5) times more. Make buttonholes over same sts as before. (6 (6, 6, 7, 7) sets of buttonholes). K 4 (5, 7, 6, 6) rows. Cast off.

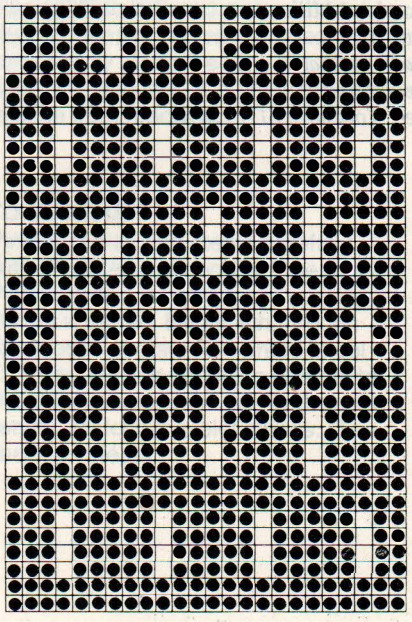
BUTTON BAND
K as for buttonhole band omitting buttonholes.

TO MAKE UP
Pin out to size and steam carefully. Join side and sleeve seams, Fold neckband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in col 1. Fold front bands in half lengthways, neaten open ends, then sew in position with buttonholes on right front for a girl and left front for a boy. Finish buttonholes. Sew on buttons. Give final light steam.





A = 21 [23, 25.5, 28, 31] CM	H = 3 [4, 4, 5.5] CM
B = 3 CM	I = 3 [3.5, 4, 4.25, 4.5] CM
C = 10 [11.5, 13.5, 17.5, 20.5] CM	J = 13.5 [14, 15, 16, 17] CM
D = 10 [11, 13, 14, 16] CM	K = 10 [12.5, 15, 18.5, 24] CM
E = 8 [9, 9.5, 10, 11] CM	L = 17 [19, 21, 23, 25] CM
F = 9.5 [10.5, 12, 13, 14.5] CM	M = 25.5 [28.5, 30.5, 33.5, 35.5] CM
G = 7 [7, 9, 9, 11] CM	N = 2.5 CM



Punchcard Chart

RABBIT MOTIF SUIT

A cute outfit which is easy to knit on any machine. The rabbit border has a 12 stitch repeat which is suitable for 12 and 24 stitch punchcard models as well as electronics. Owners of older models could substitute stocking stitch stripes in place of the motifs.

For standard gauge punchcard and electronic machines.

SIZES:
To fit 41 (46, 51, 56) cms, 16 (18, 20, 22) inch chest.

APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton Duette (knits as 3 ply).
Col 1 (White) – 1 × 350 grm cone (approx 25–50 grms required).
Col 2 (Baby Blue) – 1 × 350 grm cone.
4 buttons.
Crochet hook.
Elastic to fit waist.

TENSION:
Stocking Stitch – 32 sts and 48 rows to 10 cms. TD at approx 5 (MT).

PATTERN NOTE:
Motif Pattern – see chart.
Motif Pattern
Set point cams to work pattern over centre 60 (72, 72, 84) sts. Col 1 in feeder 1, col 2 in feeder 2.
Use a double ended transfer tool for increases and decreases.

If you have any difficulty locating Denys Brunton Duette, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

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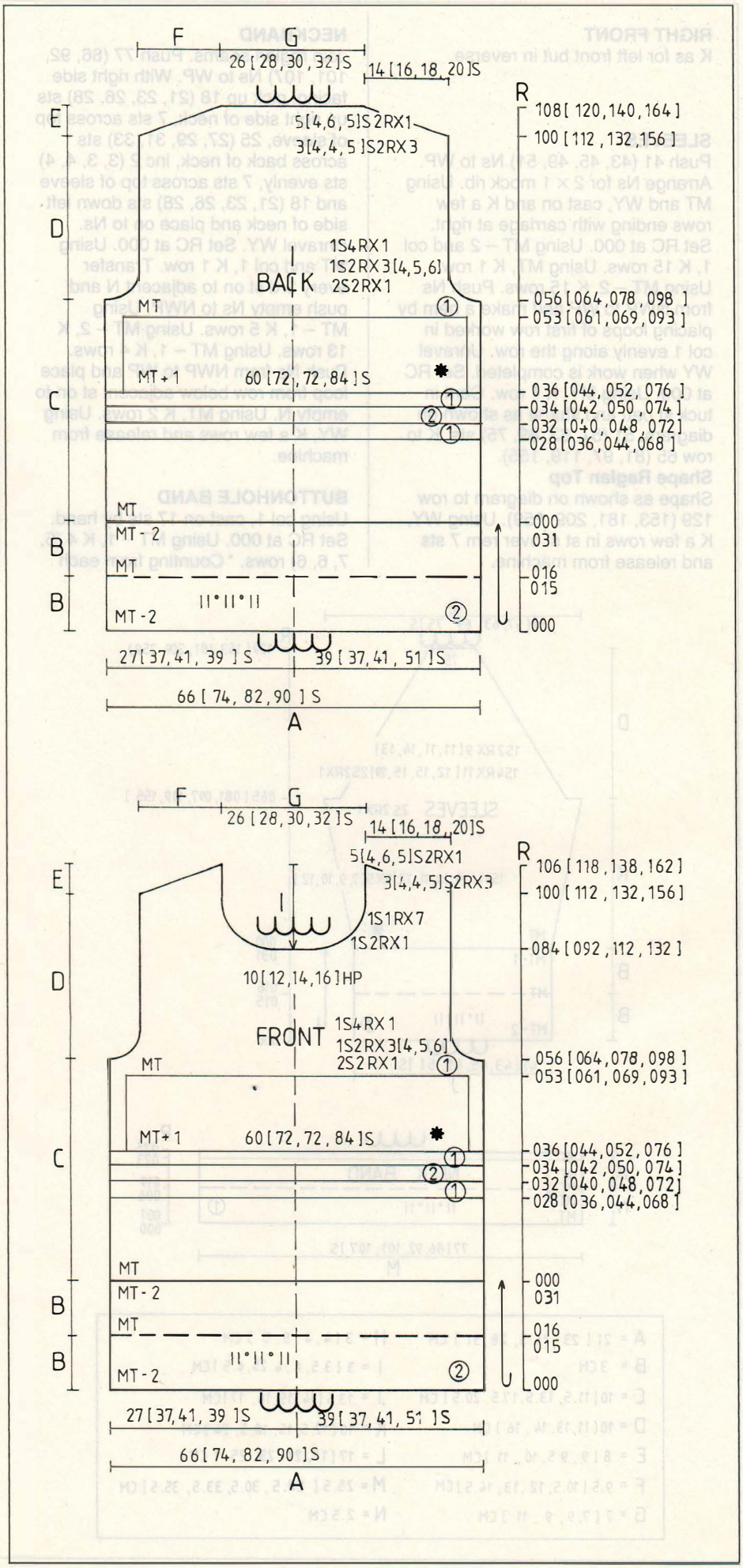


SWEATER

BACK

Push 27 (37, 41, 39) Ns at left and 39 (37, 41, 51) Ns at right of centre 0 to WP. 66 (74, 82, 90) Ns. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and col 2, K 15 rows. Using MT, K 1 row. Using MT – 2, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 2 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 28 (36, 44, 68) rows. K 4 rows col 1, 2 rows col 2 and 2 rows col 1. Cont in motif patt. Using MT + 1, K 17 rows. Remove card. Cont in st st and col 1. Using MT, K to row 56 (64, 78, 98).

Shape Armholes

Shape as shown on diagram. 54 (60, 66, 72) sts. K to row 100 (112, 132, 156).

Shape Shoulders

Shape as shown on diagram to row 108 (120, 140, 164). Using WY, K a few rows over rem 26 (28, 30, 32) sts and release from machine.

FRONT

K as for back to row 84 (92, 112, 132).

Shape Neck

Set Russel levers to I. Push 32 (36, 40, 44) Ns at left to HP. Shape as shown on diagram to row 100 (112, 132, 156). 14 (16, 18, 20) sts.

Shape Shoulder

Shape as shown on diagram to row 106 (118, 138, 162). Cast off rem 5 (4, 6, 5) sts. Push centre 10 (12, 14, 16) Ns from HP to UWP. Using WY, K a few rows and release from machine. Push rem Ns from HP to UWP. K left part as for right part.

SLEEVES

Push 43 (45, 48, 52) Ns to WP. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and col 1, K 15 rows. Using MT, K 1 row. Using MT – 2 , K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, shape as shown on diagram. 55 (61, 68, 74) sts. K to row 48 (60, 72, 90).

Shape Top

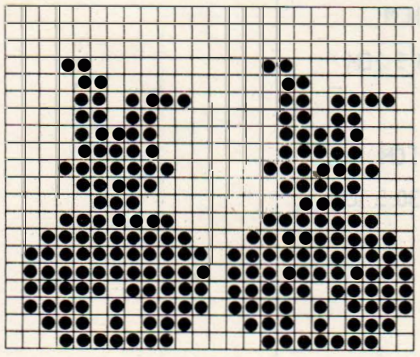
Shape as shown on diagram to row 78 (94, 112, 134). Cast off rem 15 (15, 16, 16) sts.

NECKBAND

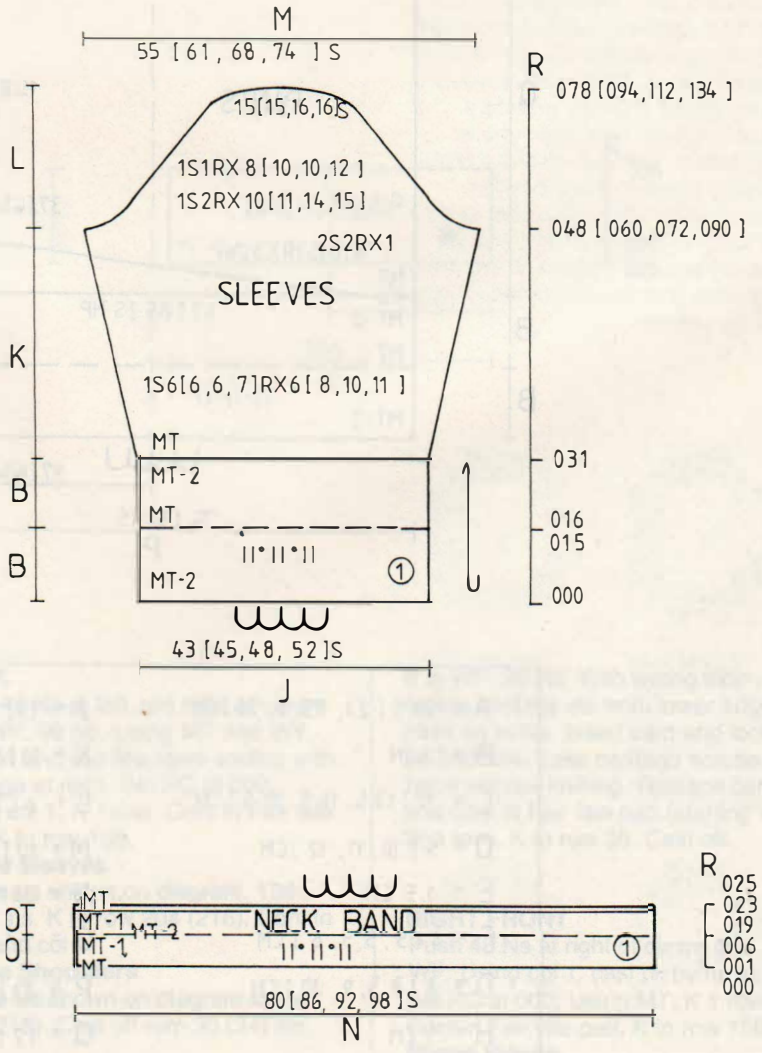
Join right shoulder seam. Push 80 (86, 92, 98) Ns to WP. With right side facing, pick up 20 (21, 22, 23) sts down left side of neck, 10 (12, 14, 16) sts from front, inc 2 sts evenly, 20 (21, 22, 23) sts up right side of neck and 26 (28, 30, 32) sts from back, inc 2 sts evenly and place on to Ns. Unravel WY. Set RC at 000. Using MT and col 1, K 1 row. Transfer every 3rd st on to adjacent N and push empty Ns to NWP. Using MT – 1, K 5 rows. Using MT – 2, K 13 rows. Using MT – 1, K 4 rows. Push Ns from NWP to WP and place loop from row below adjacent st on to empty N. Using MT, K 2 rows. Using WY, K a few rows and release from machine.

TO MAKE UP

Pin out to size and steam carefully. Join left shoulder for 1 cm. Join side and sleeve seams. Set in sleeves. Fold neckband in half to right side and pin in position. Unravelling WY as required, backstitch through open loops of last row worked in col 1. With right side facing and using crochet hook, join in col 1 at top of back neckband and work 2 rows DC (double crochet) along back neckband and shoulder, then along front shoulder and neckband working 5 button loops in front edge on second row. First mark position of buttons on back border to ensure even spacing, then work loops to correspond. To make a button loop, 2 chain, miss 1 DC. Sew on buttons. Give final light steam.



Punchcard Chart



32▶

PANTS

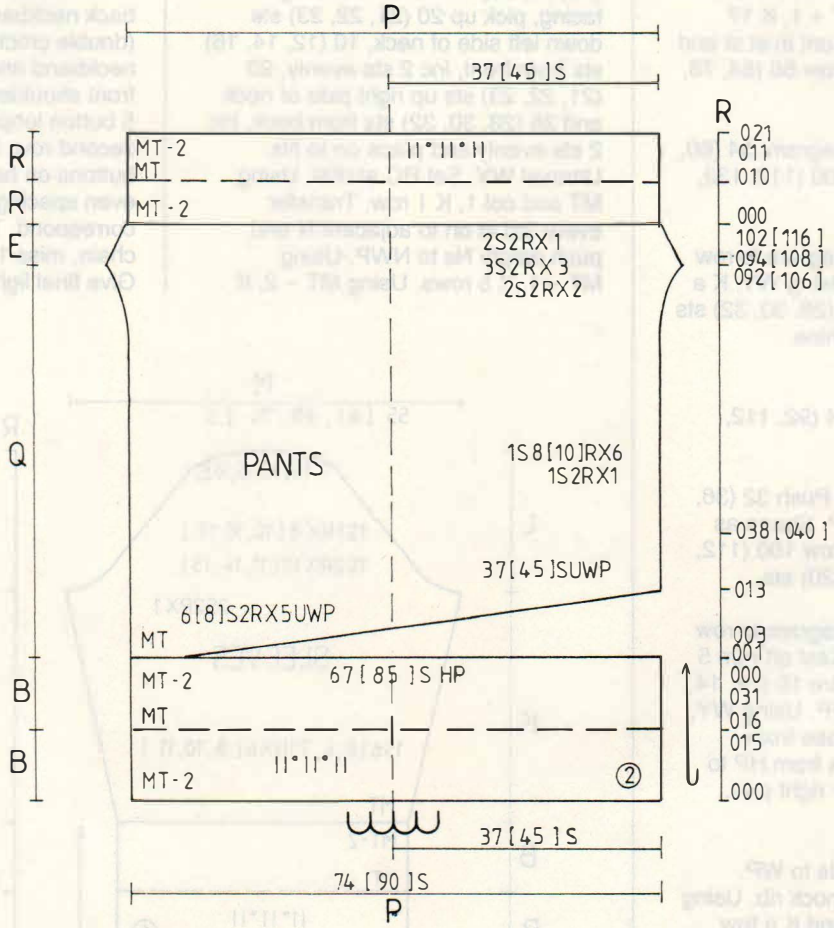
RIGHT HALF
Push 37 (45) Ns at left and right of centre 0 to WP. 74 (90) Ns. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and col 2, K 15 rows. Using MT, K 1 row. Using MT – 2, K 15 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 2 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 1 row.

Shape Back
Set carriage for partial knitting. Always taking yarn round first inside N in HP, push Ns shown on diagram to HP. Push Ns shown on diagram from HP to UWP. K to row 30 (40). Shape as shown on diagram to row 92 (106). 96 (112) sts. K 2 rows.

Shape Leg
Shape as shown on diagram to row 102 (116). 74 (90) sts. Transfer sts for 2 × 1 mock krib. Push empty Ns to NWP. Using MT – 2, K 10 rows. Using MT, K 1 row. Using MT – 2, K 10 rows. Cast off.

LEFT HALF
K as for right half but in reverse.

TO MAKE UP
Pin out to size and steam carefully. Join centre front, centre back and inside leg seams. Fold leg bands in half and catch down on inside. Insert elastic into waistband and join ends. Give final light steam.



A	= 20.5 [23, 25.5, 28] CM	J	= 13 [14, 15, 16] CM
B	= 3 CM	K	= 10 [12.5, 15, 18.5] CM
C	= 12 [13.5, 16.5, 20.5] CM	L	= 6 [7, 8, 9] CM
D	= 9 [10, 11, 12] CM	M	= 17 [19, 21, 23] CM
E	= 1.5 CM	N	= 25 [26.5, 28.5, 30.5] CM
F	= 4 [5, 5.5, 6] CM	O	= 2.5 CM
G	= 8 [8.5, 9, 10] CM	P	= 23 [28] CM
H	= 1 CM	Q	= 17 [20] CM
I	= 4.5 [5, 5, 6] CM	R	= 2 CM

THE TALE OF
TOM KITTEN
BY
BEATRIX POTTER
F. WARNE & CO.

BOW TRIMMED DUNGAREES

Team up these stylish dungarees with the matching striped eyelet sweater to make an attractive outfit for a toddler. The bow trims add a 'designer' look and can be knitted in contrast to the main background colour. The cross-over top fastens with buttons at the back – a comfortable and warm garment.

For standard gauge machines.

SIZES:
To fit 46 (51, 56) cms, 18 (20, 22) inch chest.

APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton De-Lux 4 ply.
Col 1 (White) – 1 × 400 grm cone.
Col 2 (Mid-Blue) – A small amount.
Col 3 (Peach) – A small amount.

TENSION:
Stocking Stitch – 28 sts and 40 rows to 10 cms. TD at approx 7 (MT).

If you have any difficulty locating Denys Brunton De-Lux 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

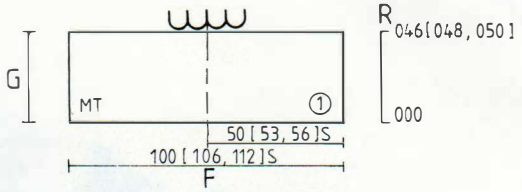
Denys Brunton Designer Yarns
Moorland Mills
Law Street
Bradford Road
Cleckheaton
West Yorkshire BD19 3QR

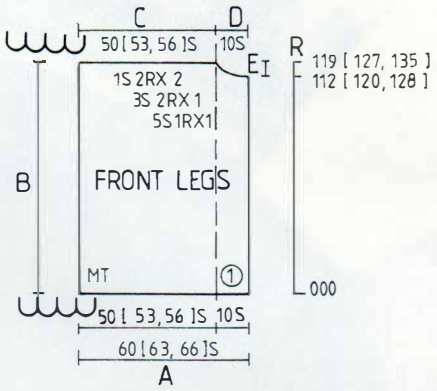
LEFT FRONT LEG
Push 50 (53, 56) Ns at left and 10 Ns at right of centre 0 to WP. 60 (63, 66) Ns. Using MT and WY, cast on and K a few rows, ending with carriage at right. Set RC at 000. Using col 1, K to row 112 (120, 128).

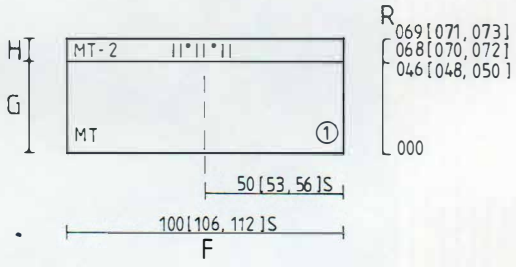
Shape Crotch
Shape as shown on diagram to row 119 (127, 135). 50 (53, 56) sts *. Using WY, K a few rows and release from machine.

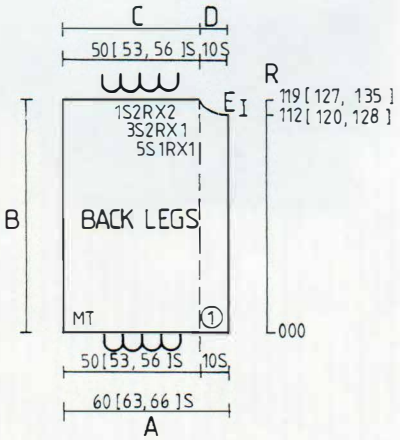
RIGHT FRONT LEG
K as for left front leg to * but in reverse. Push 50 (53, 56) Ns at left of centre 0 to WP. With wrong side facing replace 50 (53, 56) sts from last row knitted in col 1 on left front leg on to empty Ns. Unravel WY. 100 (106, 112) sts. Set RC at 000. K 46 (48, 50) rows **. Using WY, K a few rows and release from machine.

BACK LEGS
K as for front legs to **. Transfer sts for 2 × 1 mock rib and push empty Ns to NWP. Using MT – 2, K 22 rows. Push Ns from NWP to WP. K 1 row. Cast off.









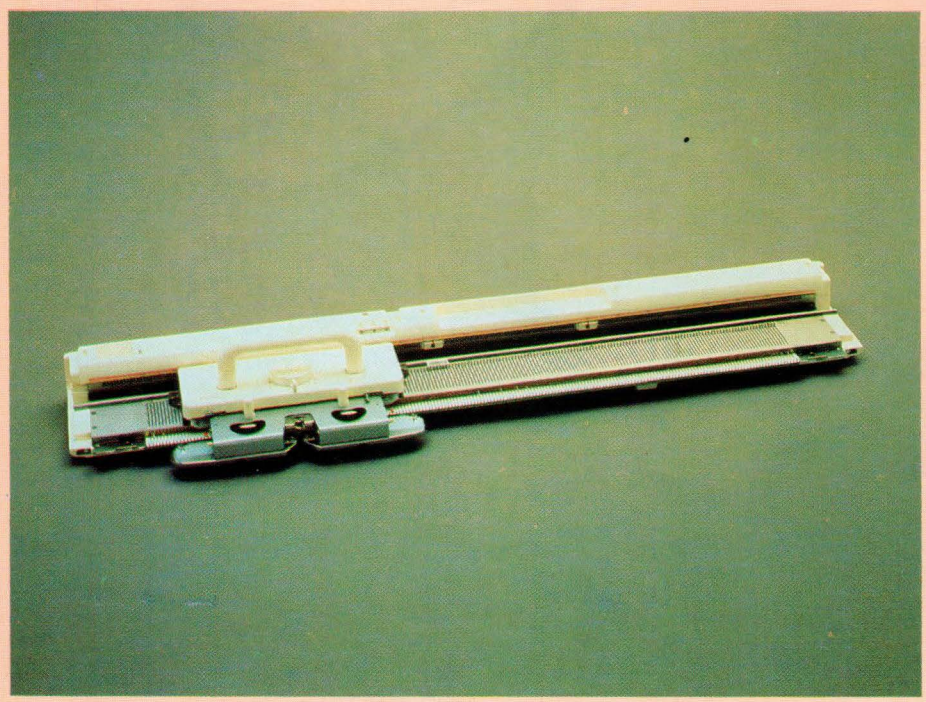
38▶

SPECTACULAR

SILVER REED

BUMPER PRIZE

This is your chance to *WIN* one of the superb top of the range Silver Reed electronic knitting machines. Silver Knitting Machines Ltd are offering an *SK 840 4.5 mm Standard Gauge Machine* to the lucky winner of this month's competition *PLUS* the optional *EC1 Pattern Controller* and *PE1 Design Controller*!



The **SK 840** is part of the exciting new '**Modular System**' which allows you the opportunity to expand your electronic knitting options to suit your needs. The **EC1** Pattern Controller can be used with any of the pre-printed design cards, leaving you the choice of a wide selection of patterning variations at the touch of a button. Add the optional **PE1** Design Controller to the 'system' and discover the freedom to utilise the electronic patterning facilities even further. The PE1 enables you to achieve exciting and sophisticated results – designs can be joined together to produce larger patterns than with the EC1 and the liquid crystal display enables you to view up to 64 stitches and 8 pattern rows currently stored in the PE1 memory, with a scrolling function to display the remainder of the pattern. Patterns can also be stored in compact Memory Cards and data can be copied from one Memory Card to another in seconds. A special feature of the PE1 is that you can use it to knit multi-colour Jacquard.

THE WONDERFUL WORLD OF SILVER REED

KNITSEARCH

A	B	E	D	S	M	S	P	E	E	D	N	O
R	W	S	I	C	O	P	A	T	T	E	R	N
A	T	T	A	C	H	M	E	N	T	S	L	L
N	V	S	I	O	A	U	C	H	O	I	C	E
M	A	Y	S	N	I	V	N	E	R	G	O	V
E	R	S	R	T	R	I	S	K	B	N	N	E
M	I	T	A	R	E	T	T	E	Y	R	E	R
O	E	E	T	O	P	T	I	O	N	S	S	T
R	T	M	N	L	H	M	O	D	U	L	A	R
Y	Y	T	I	L	I	B	I	X	E	L	F	A
G	A	U	G	E	S	V	A	L	U	E	N	G
C	I	N	O	R	T	C	E	L	E	O	L	D
E	L	Y	T	S	D	R	A	U	Q	C	A	J

LIST

ARAN
ATTACHMENTS
BEDS
CHOICE
CHUNKY
CONES
CONTROLLERS
DESIGN
ELECTRONIC
FLEXIBILITY
GAUGES
INTARSIA
JACQUARD
LEVER
MEMORY
MODULAR
MOHAIR
OPTIONS
PATTERN
SPEED
SYSTEM
STYLE
VALUE
VARIETY

'KNITSEARCH' COMPETITION DETAILS

The two dozen 'hidden' words filled in on the '**KNITSEARCH**' Grid all come from the Silver Reed Knitting Machine leaflets – you'll see them listed in alphabetical order. These listed words all appear in the grid in straight lines, but these lines may be horizontal, vertical or diagonal. To make the search harder, some words are spelled in reverse order! The objective of this game is to eliminate all the squares used by the listed words and then discover the winning **PHRASE** revealed in the remaining twenty five squares.

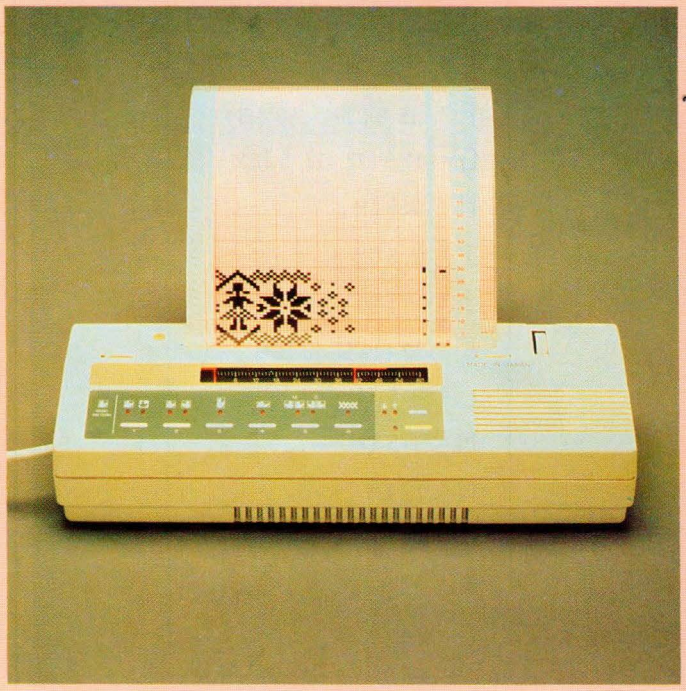
Is this the month that heralds your name as the Winner and beneficiary of the fantastic Silver Reed prize described above? Well, there's no reason why it shouldn't be you, given that your postcard identifying that phrase is received at Maidenhead **by 30 April 1992**. So happy searching and here's hoping!

Please print the winning phrase clearly on the back of a plain postcard including your name, address and postcode and send to:

KNITSEARCH COMPETITION
Modern Machine Knitting
3 Bridge Avenue
Maidenhead
Berks SL6 1RR

Entries to reach us by 30 April 1992.

Pattern Controller



Design Controller

◀34

RIGHT FRONT YOKE
Push 35 (39, 42) Ns at left and right of centre 0 to WP. 70 (78, 84) Ns. Using MT and WY, cast on and K a few rows, ending with carriage at right. Set RC at 000. Using col 1, K 11 rows. Shape as shown on diagram. 25 sts. K to row 160 (166, 172). Counting from each edge make buttonholes over Ns 4. K 4 rows. Cast off.

LEFT FRONT YOKE
K as for right front yoke but in reverse.

TO JOIN YOKES TO FRONT LEGS
Push 70 (78, 84) Ns to WP. With right side facing, replace sts from left front yoke on to Ns. With right side facing, replace sts from right front yoke on to same Ns. Unravel WY. Using MT and col 1, K 1 row. With wrong side of front legs facing, replace 100 (106, 112) sts on to Ns gathering evenly. Unravel WY. K 1 row. Cast off.

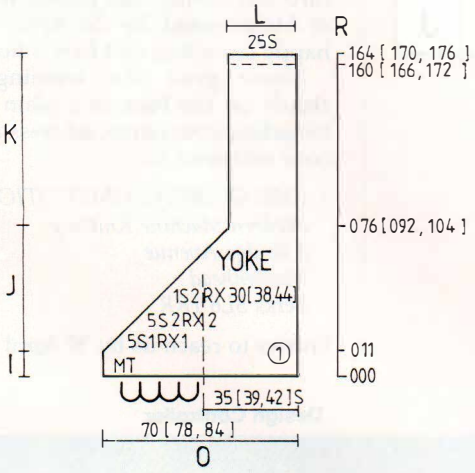
FRONT BINDINGS (2)
Push 7 Ns to WP. Using MT – 1 and WY, cast on and K a few rows. Using col 3, K until binding will fit from beg of yoke shaping, up front around back straps and down to side seam. Using WY, K a few rows and release from machine.

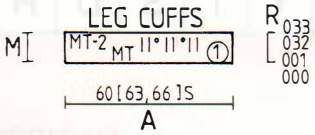
BOWS (Make 2 in Col 2 and 1 in Col 3)
Push 10 Ns to WP. Using MT – 1 and WY, cast on and K a few rows. Using col 2 or col 3, K 40 rows. Make a hem by placing loops of first row worked in col 2 or col 3 on to corresponding Ns. Cast off.

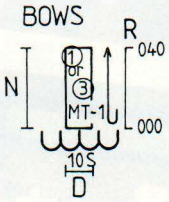
CENTRE LOOPS
Push 4 Ns to WP. Using MT – 1 and WY, cast on and K a few rows. Using col 1, K 12 rows. Make a hem by placing loops of first row worked in col 1 on to corresponding Ns. Cast off.

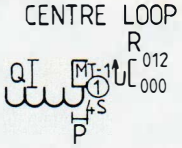
LEG CUFFS (2)
Join crotch and inside leg seams. Push 60 (63, 66) Ns to WP. With carriage at left and wrong side of leg facing, replace sts from lower edge on to Ns gathering evenly. Using MT and col 1, K 1 row. Transfer sts for 2 × 1 mock rib and push empty Ns to NWP. Using MT – 2, K 31 rows. Push Ns from NWP to WP, K 1 row. Cast off.

TO MAKE UP
Pin out to size and steam carefully. Join outside leg seams. Fold cuffs in half to wrong side and catch down. Join side seams on yoke to half of rib casing on back. Cut elastic to required width and sew securely to inside side seams. Fold casing in half to wrong side and catch down. Using a small backstitch sew bindings around yoke edges, carefully easing around corners. Unravel any excess and bind off. Sew three bows to front curved edge. Sew on buttons. Give final light steam.









A = 21 [22, 23.5] CM
B = 29.5 [31.5, 33.5] CM
C = 17.5 [18.5, 20] CM
D = 3.5 CM
E = 1.75 CM
F = 35.5 [37.5, 40] CM
G = 11.5 [12, 12.5] CM
H = 2.5 CM
I = 2.5 CM
J = 16 [20, 23] CM
K = 22 [19.5, 18] CM
L = 8.5 CM
M = 3.5 CM
N = 10 CM
O = 25 [27.5, 30] CM
P = 1.25 CM
Q = 3 CM

STRIPED EYELET SWEATER

Dropped shoulders, round neckline and a simple but effective pattern of lace transfers worked within a contrast stripe sequence, make this a versatile garment. If you don't fancy the idea of lace holes on a boy, knit the sweater in plain stocking stitch or omit the transfers and knit the stripes plain.

For standard gauge machines.

SIZES:
To fit 46 (51, 56) cms, 18 (20, 22) inch chest.

APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton De-Lux 4 ply.
Col 1 (White) – 1 × 400 grm cone.
Col 2 (Mid-Blue) – approx 25 grms.
Col 3 (Peach) – Approx 25 grms.

TENSION:
Stocking Stitch – 28 sts and 40 rows to 10 cms. TD at approx 7 (MT).

PATTERN NOTE:
Eyelet Pattern
Using col 2, K 2 rows. Transfer every alt N to its adjacent N at right, leave empty Ns in WP, K 2 rows. Using col 1, K 8 rows. Using col 3, K 2 rows. Transfer every alt N to its adjacent N at right, leave empty Ns in WP, K 2 rows. Using col 1, K 8 rows.

If you have any difficulty locating Denys Brunton De-Lux 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Denys Brunton Designer Yarns
Moorland Mills
Law Street
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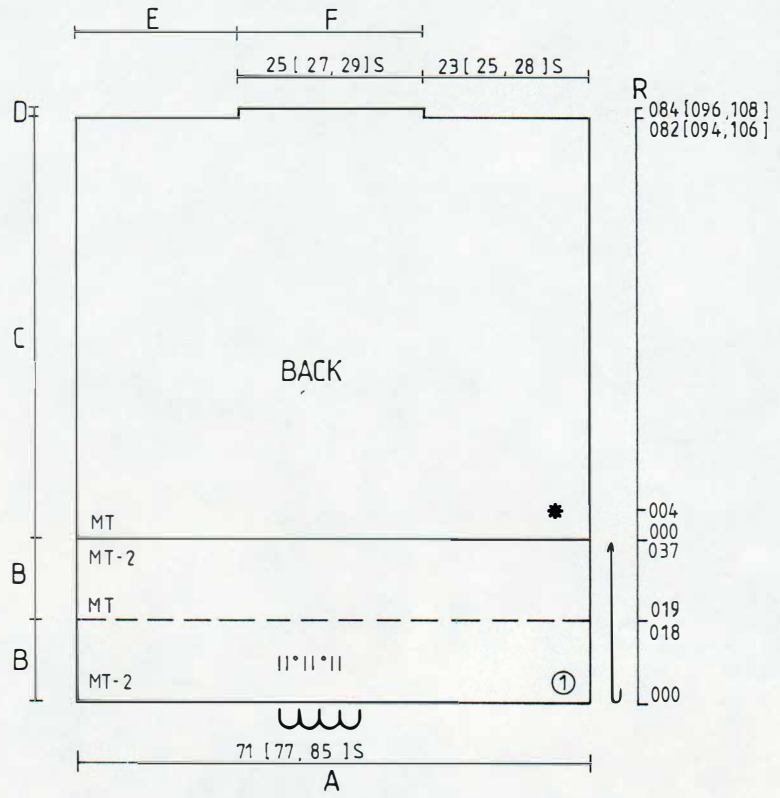
West Yorkshire BD19 3QR



BACK
Push 71 (77, 85) Ns to WP. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and col 1, K 18 rows. Using MT, K 1 row. Using MT – 2, K 18 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 4 rows. Cont in patt, K to row 82 (94, 106).

Shape Shoulders
Shape as shown on diagram to row 84 (96, 108). Cast off rem 25 (27, 29) sts.

A = 25 [27.5, 30] CM	G = 6 CM
B = 4 CM	H = 15 [15.5, 16] CM
C = 20.5 [23.5, 26.5] CM	I = 15.5 [17.5, 19.5] CM
D = 0.5 CM	J = 24 [25.5, 27] CM
E = 8 [9, 10] CM	K = 35 [37, 39] CM
F = 9 [9.5, 10] CM	L = 2.5 CM

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THE TALE OF JEMIMA PUDDLE-DUCK
BEATRIX POTTER
THE TALE OF THE FLOPSY BUNNIES
BEATRIX POTTER
THE TAILOR OF GLOUCESTER
BEATRIX POTTER

ALPHABET SLEEPING BAG

Pretty pastels combine with the letters ABC to make a practical and attractive sleeping bag for baby. For a bright, bold bag, use navy with a mixture of primary colours or knit it plain and add some special motif buttons in contrast.

For standard gauge punchcard and electronic machines.

SIZES:
To fit 46–51 (56–61) cms, 18–20 (22–24) inch chest.

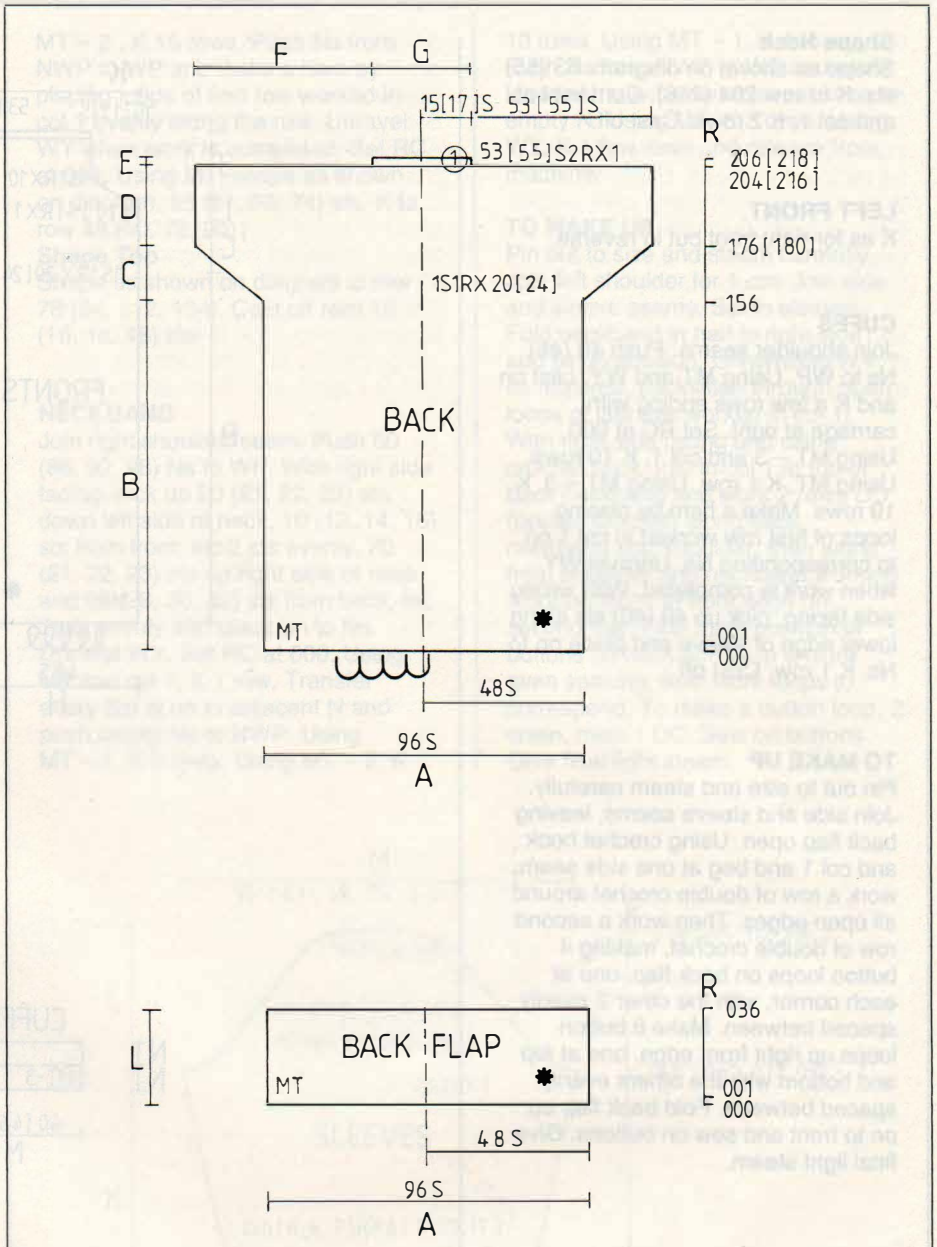
APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton De-Lux 4 ply.
Col 1 (Lemon) – 1 × 400 grm cone.
Col 2 (Pink) – approx 50 grms.
Col 3 (Mid-Blue) – approx 50 grms.
Col 4 (Mint) – approx 50 grms.
12 small buttons.
Crochet hook.

TENSION:
Fair Isle – 28 sts and 36 rows to 10 cms.
TD at approx 8 (MT).

PATTERN NOTE:
Fair Isle – see chart.
Fair Isle Pattern
Col 1 in feeder 1, K 1 row. Col 1 in feeder 1, col 2 in feeder 2, K 10 rows. Col 1 in feeder 1, K 2 rows. Col 1 in feeder 1, col 3 in feeder 2, K 10 rows. Col 1 in feeder 1, K 2 rows. Col 1 in feeder 1, col 4 in feeder 2, K 10 rows. Col 1 in feeder 1, K 1 row.

If you have any difficulty locating Denys Brunton De-Lux 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Denys Brunton Designer Yarns
Moorland Mills
Law Street
Bradford Road
Cleckheaton
West Yorkshire BD19 3QR



BACK
Push 48 Ns at left and right of centre 0 to WP. 96 Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using col 1, K 1 row. Cont in Fair Isle patt. K to row 156.

Shape Sleeves
Shape as shown on diagram. 136 (144) sts. K to row 204 (216). Cont in st st and col 1.

Shape Shoulders
Shape as shown on diagram to row 206 (218). Cast off rem 30 (34) sts.

BACK FLAP
Push 48 Ns at left and right of centre 0 to WP. 96 Ns. With wrong side facing, replace sts from lower edge of back on to Ns. Insert card and lock on 2nd row. Take carriage across twice without knitting. Release card and cont in Fair Isle patt (starting with 2nd row). K to row 36. Cast off.

RIGHT FRONT
Push 48 Ns at right of centre 0 to WP. Using col 1, cast on by hand. Set RC at 000. Using MT, K 1 row. Cont in Fair Isle patt. K to row 156.

Shape Sleeve
Shape as shown on diagram. 68 (72) sts. K to row 185 (197).

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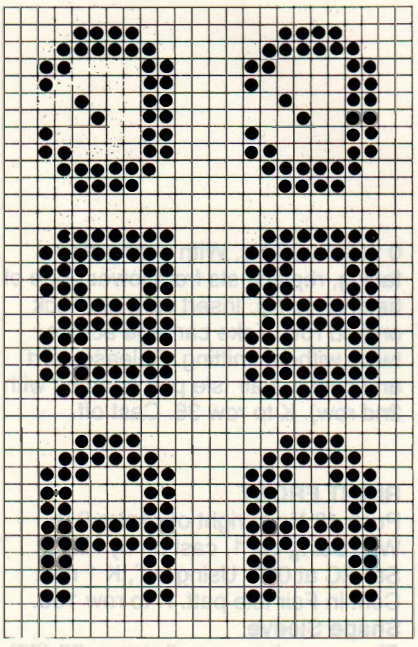
◀41

Shape Neck
Shape as shown on diagram. 53 (55) sts. K to row 204 (216). Cont in st st and col 1, K 2 rows. Cast off.

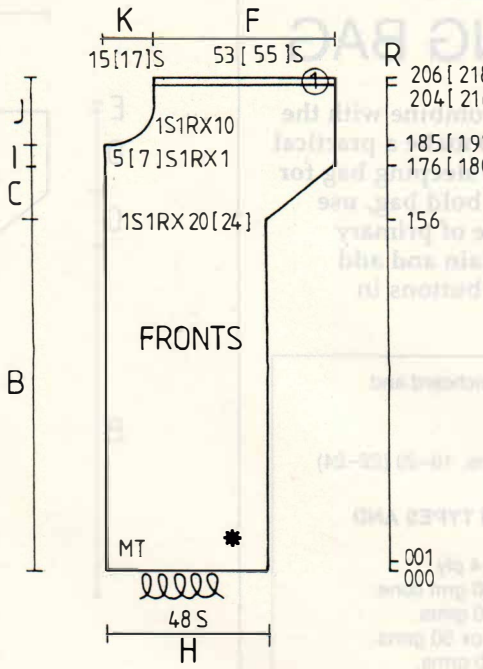
LEFT FRONT
K as for right front but in reverse.

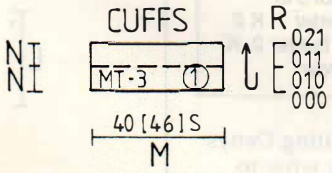
CUFFS
Join shoulder seams. Push 40 (46) Ns to WP. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 3 and col 1, K 10 rows. Using MT, K 1 row. Using MT – 3, K 10 rows. Make a hem by placing loops of first row worked in col 1 on to corresponding Ns. Unravel WY when work is completed. With wrong side facing, pick up 40 (46) sts along lower edge of sleeve and place on to Ns. K 1 row. Cast off.

TO MAKE UP
Pin out to size and steam carefully. Join side and sleeve seams, leaving back flap open. Using crochet hook and col 1 and beg at one side seam, work a row of double crochet around all open edges. Then work a second row of double crochet, making 4 button loops on back flap, one at each corner, with the other 2 evenly spaced between. Make 8 button loops up right front edge, one at top and bottom with the others evenly spaced between. Fold back flap up on to front and sew on buttons. Give final light steam.



Punchcard Chart

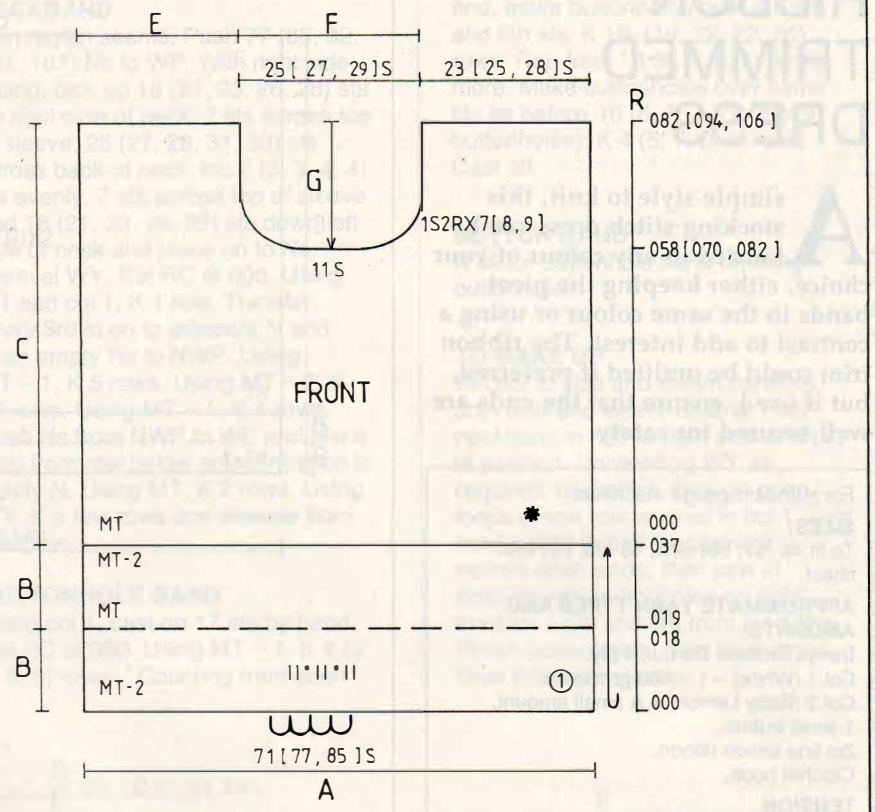


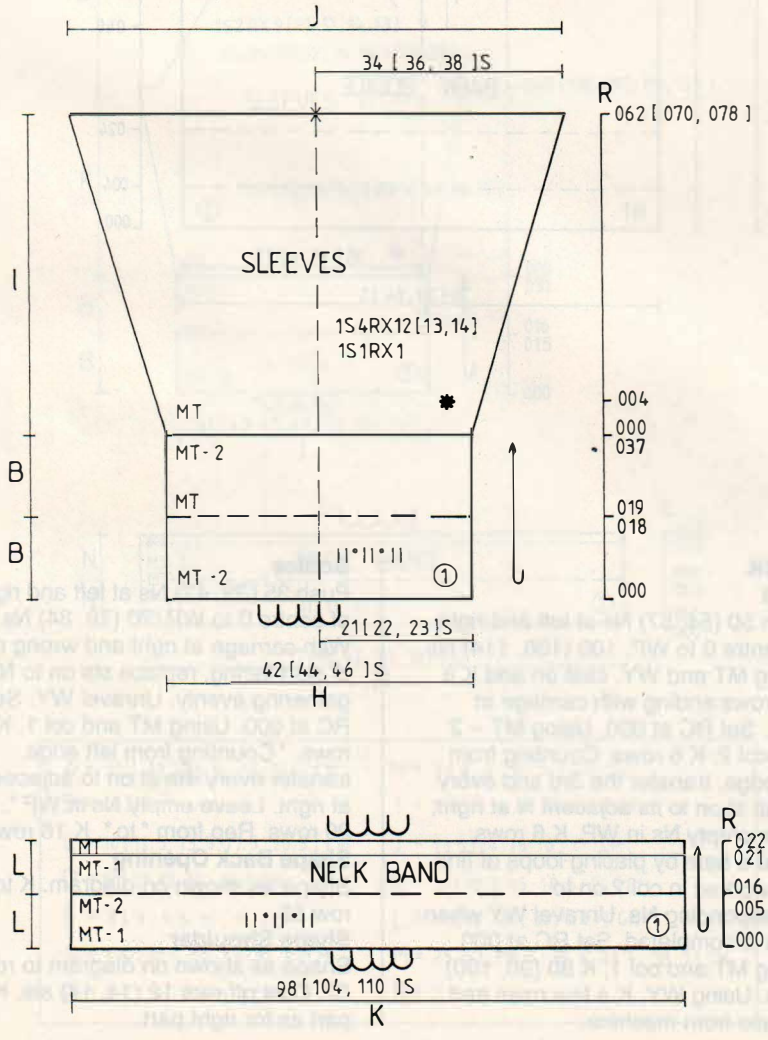


A = 34 CM	H = 17 CM
B = 43 CM	I = 2.5[4.5] CM
C = 5.5[6.5] CM	J = 6 CM
D = 8[10] CM	K = 5.25[6] CM
E = 0.5 CM	L = 10 CM
F = 19[19.5] CM	M = 14[16] CM
G = 10.5[12] CM	N = 2 CM

FRONT
K as for back to row 58 (70, 82).
Shape Neck
Shape as shown on diagram. 23 (25, 28) sts. K to row 82 (94, 106). Cast off. K left part as for right part.

SLEEVES
Push 21 (22, 23) Ns at left and right of centre 0 to WP. 42 (44, 46) Ns. Arrange Ns for 2 × 1 mock rib. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and col 1, K 18 rows. Using MT, K 1 row. Using MT – 2, K 18 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. Unravel WY when work is completed. Set RC at 000. Using MT, K 4 rows. Cont in patt and shape as shown on diagram. 68 (72, 76) sts. K to row 62 (70, 78). Place marker at centre 0. Cast off.





NECKBAND
Push 98 (104, 110) Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 1 and col 1, K 5 rows. Using MT – 2, K 11 rows. Using MT – 1, K 5 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in col 1 evenly along the row. K 1 row. Using MT and WY, K a few rows and release from machine.

TO MAKE UP
Pin out to size and steam carefully. Join shoulder and neckband seams. Pin neckband in position unravelling WY as required, backstitch through open loops of last row worked in col 1. Set in sleeves matching centres to shoulder seams. Join side and sleeve seams, matching eyelet stripes. Give final light steam.

RIBBON TRIMMED DRESS

A simple style to knit, this stocking stitch dress can be knitted in any colour of your choice, either keeping the picot bands in the same colour or using a contrast to add interest. The ribbon trim could be omitted if preferred, but if used, ensure that the ends are well secured for safety.

For standard gauge machines.

SIZES:
To fit 46 (51, 56) cms, 18 (20, 22) inch chest.

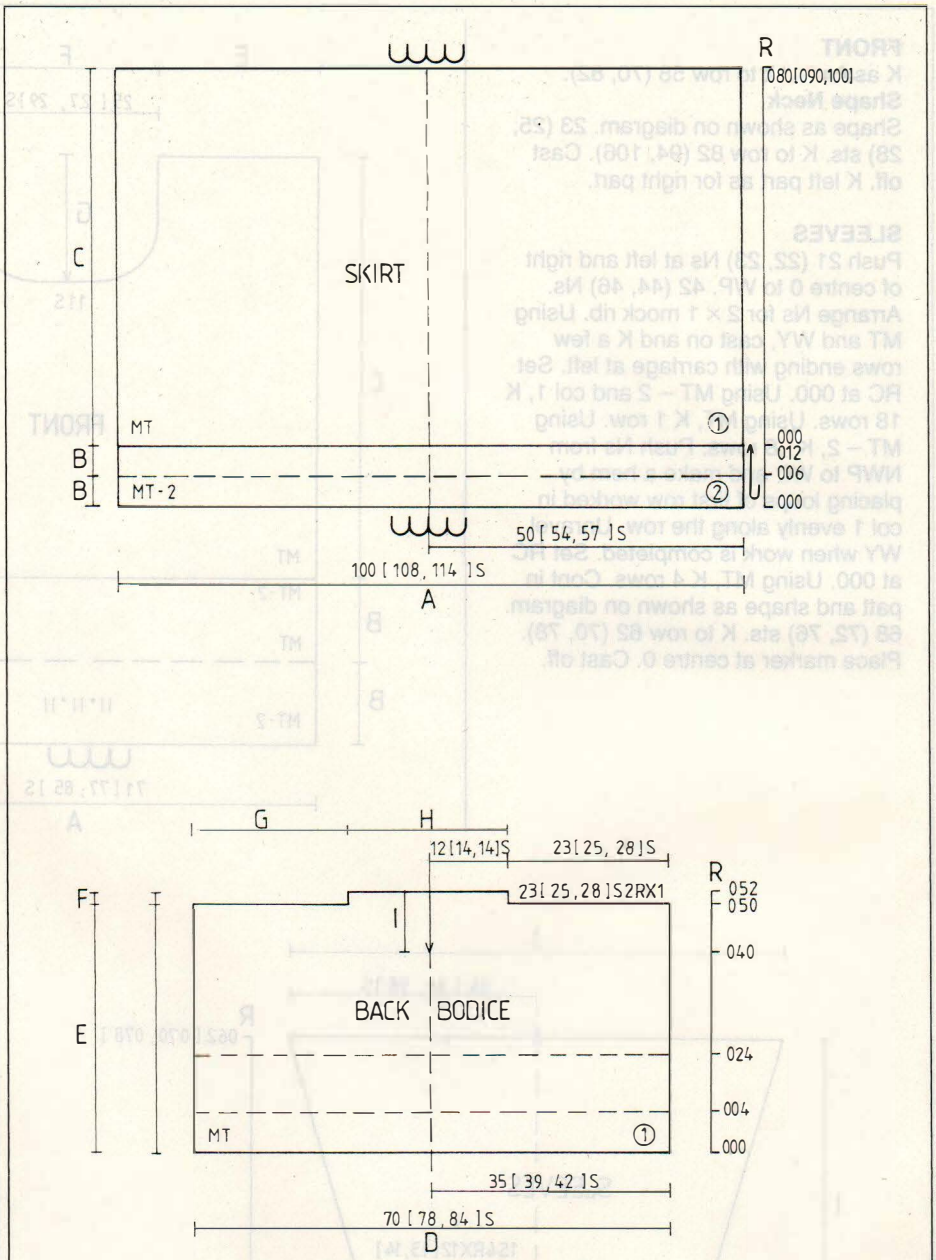
APPROXIMATE YARN TYPES AND AMOUNTS:
Denys Brunton De-Lux 4 ply.
Col 1 (White) – 1 × 400 grm cone.
Col 2 (Baby Lemon) – A small amount.
1 small button.
2m fine lemon ribbon.
Crochet hook.

TENSION
Stocking Stitch – 28 sts and 40 rows to 10 cms. TD at approx 7 (MT).

PATTERN NOTE:
Stocking Stitch.

If you have any difficulty locating Denys Brunton De-Lux 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Denys Brunton Designer Yarns
Moorland Mills
Law Street
Bradford Road
Cleckheaton
West Yorkshire BD19 3QR



BACK
Skirt
Push 50 (54, 57) Ns at left and right of centre 0 to WP. 100 (108, 114) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 2, K 6 rows. Counting from left edge, transfer the 3rd and every foll alt st on to its adjacent N at right, leave empty Ns in WP. K 6 rows. Make a hem by placing loops of first row worked in col 2 on to corresponding Ns. Unravel WY when work is completed. Set RC at 000. Using MT and col 1, K 80 (90, 100) rows. Using WY, K a few rows and release from machine.

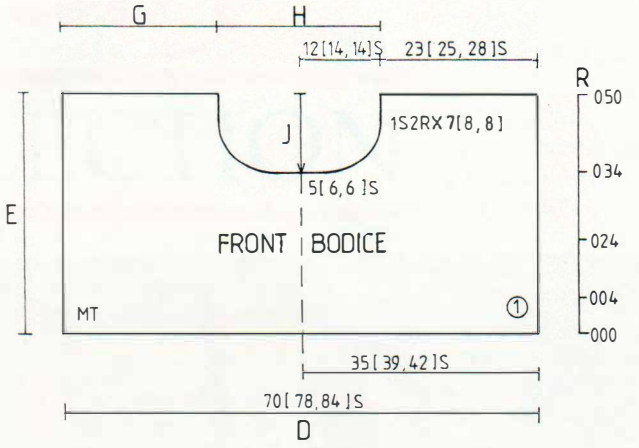
Bodice
Push 35 (39, 42) Ns at left and right of centre 0 to WP. 70 (78, 84) Ns. With carriage at right and wrong side of skirt facing, replace sts on to Ns gathering evenly. Unravel WY. Set RC at 000. Using MT and col 1, K 4 rows. *Counting from left edge, transfer every 4th st on to adjacent N at right. Leave empty Ns in WP*. K 20 rows. Rep from * to *. K 16 rows.
Shape Back Opening
Shape as shown on diagram. K to row 50.
Shape Shoulder
Shape as shown on diagram to row 52. Cast off rem 12 (14, 14) sts. K left part as for right part.

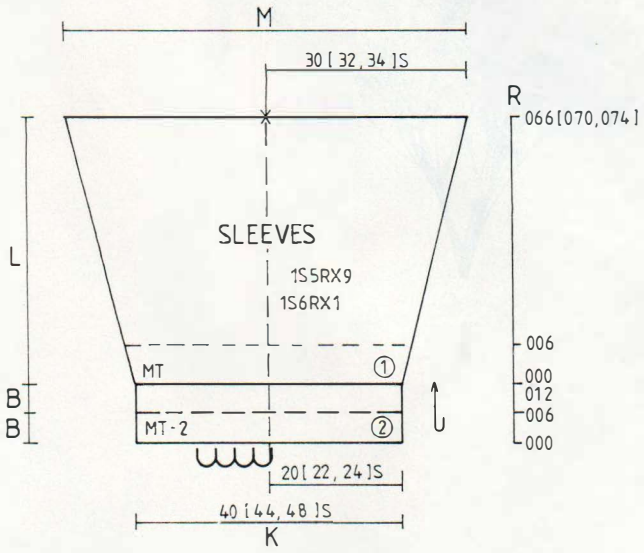
FRONT
K as for back to row 34 of bodice.
Shape Neck
Shape as shown on diagram to row 50. Cast off rem 23 (25, 28) sts. K left part as for right part.

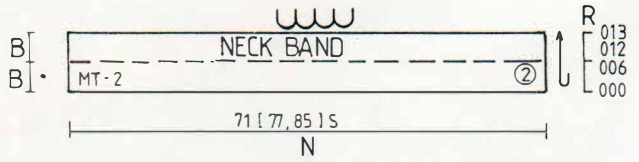
SLEEVES
Push 20 (22, 24) Ns at left and right of centre 0 to WP. 40 (44, 48) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 2, K 6 rows. Counting from left edge, transfer the 3rd and every foll alt st on to its adjacent N at right, leave empty Ns in WP. K 6 rows. Make a hem by placing loops of first row worked in col 2 on to corresponding Ns. Unravel WY when work is completed. Set RC at 000. Using MT and col 1, K 6 rows. Counting from left edge, transfer every 4th st on to its adjacent N at right, leave empty Ns in WP. Shape as shown on diagram. 60 (64, 68) sts. K to row 66 (70, 74). Mark centre with WY. Cast off.

NECKBAND
Push 71 (77, 85) Ns to WP. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT – 2 and col 2, K 6 rows. Counting from left edge, transfer the 3rd and every foll alt st on to its adjacent N at right. Leave empty Ns in WP. K 6 rows. Make a hem by placing loops of first row worked in col 2 on to corresponding Ns. Unravel WY when work is completed. K 1 row. Using MT and WY, K a few rows and release from machine.

TO MAKE UP
Pin out to size and steam carefully. Join shoulder seams. Pin neckband into position with ends at back opening. Unravelling WY as required, backstitch through open loops of last row worked in col 2. Using a small crochet hook and col 1, work a row of double crochet around back opening, including sides of neckband. Make a crocheted loop at top of neckband on right back opening. Sew small button to neckband on left back opening. Set in sleeves matching centres to shoulder seams. Join side and sleeve seams. On front and back, thread ribbon through eyelets and sew securely to side seams. On sleeves thread ribbon through eyelets, leaving ends long enough for ribbon to gather cuff and tie in a bow. Give final light steam.







A = 35.5 [38.5, 40.5] CM	H = 8.5 [10, 10] CM
B = 1.5 CM	I = 3 CM
C = 20 [22.5, 25] CM	J = 4 CM
D = 25 [27.5, 30] CM	K = 14 [15.5, 17] CM
E = 12.5 CM	L = 16.5 [17.5, 18.5] CM
F = 0.5 CM	M = 21 [22.5, 24] CM
G = 8.25 [8.75, 10] CM	N = 25 [27.5, 30] CM

THE
Baby
COLLECTION

LETTERS, HINTS & TIPS

Dear Sue,

When knitting your lovely designs 'From Nature' or 'Popular Pets' as a single motif I have a tip to avoid the floats being caught on the reverse. I pick up a row of stitches about an inch below the motif and extend the same distance equally on each side, then knit a patch the same number of rows in matching 2/30s using the same tension as the main tension. To finish, I then pick up a row of stitches about one inch above the motif and cast off very loosely. I catch down the sides of the panel very loosely to neaten the whole area.

Yours sincerely,

Mrs A C Bowden, Bacup, Lancs

• *This is a good way to neaten the floats provided that the 'lining' patch is knitted loose enough to ensure that it does not pull the main fabric from top to bottom. It is also important to make sure that the side stitching is loose as well as neat and invisible!*

Dear Sue,

I have knitted quite a few jumpers from your magazine, especially lace edged tops which always look very attractive when completed. Here is a tip which works very well for me.

Most patterns of this type tell you to use a chain stitch cast on and to press the edge when the pieces are finished. I cast on in waste yarn first and knit about an inch then e-wrap cast on over the waste knitting in the main yarn. On completion of knitting, I then press the piece with the waste yarn still in position, leaving it there until the fabric is dry again. When the waste knitting is removed, the lace edging is beautifully flat. This saves a lot of fiddling about with the iron and the business of trying to stop the edge from rolling back on itself!

Yours sincerely,

Mrs M McMann, Glenrothes, Fife

Dear Sue

I think your magazine is fantastic! Every issue is packed with really fashionable garments for ladies – but what about childrens' garments? You sometimes publish baby garment patterns but I am looking, in particular, for a boy's double breasted cardigan. I have been searching for ages but without any luck!

Also, I was wondering about all the punchcard patterns in your magazine. I am quite new to machine knitting and rather dived in at the deep end by buying the first machine I looked at. Now I wish that I had shopped around first as my Toyota 858 is only a 12 stitch punchcard machine and all your cards shown are the 24 stitch kind. I would like to know if it is possible to change your designs to fit my cards and if so, how? If not, could you please feature more 12 stitch punchcard patterns please?

Yours sincerely,

Beverley Nicholls, Stoke-on-Trent, Staffs

• *This is one of the many letters we have received concerning 12 stitch designs. First of all, although we actually publish the 24 stitch punchcards as they actually look (i.e. with the design punched out in full across the 24 boxes on the card), some of the designs are patterns which repeat across the card in either 2, 3, 4, 6, 8 or 12 stitch repeats. This is particularly common where the cards from the basic punchcard packs have been featured. ALL but the 8 stitch repeats will fit within a 12 stitch punchcard, so it is worth having a look at the design to double check.*

Obviously, we also feature a lot of patterns which can only be 24 stitch, but we do have to cater for these machines too as well as for the electronic owners with their even wider choice of patterning possibilities. However, we hope you will enjoy Jane Huntingford's new series on Geometric designs for punchcard and electronic knitters – Jane's ideas lend themselves particularly well to small repeating patterns which not only have the advantage of small floats but also many of them will be suitable for the 12 stitch punchcards!

Dear Sue

Contrary to Mrs Cotterill's experience (October MMK), I would like to tell you of mine. I recently bought a Double-Bed Colour Changer from a lady who had advertised it for sale through your columns and who lives in Norfolk. I telephoned her, we agreed a price and, although I have never used the service before, asked her to send it C.O.D. She posted the Colour Changer that Friday and the following Monday morning I received a postcard from our local sorting office telling me that a parcel awaited my collection. I cashed a cheque for the agreed amount, paid the very nice man at the sorting office and received the Colour Changer. The money was subsequently paid to the lady in Norfolk within the next three days. In all, the transaction was completed to everyone's satisfaction in under a week and neither party was at risk of losing either machine or money. I would certainly recommend this method of buying and selling to anyone!

Yours sincerely,

Mrs M. Lidstone, Crediton, Devon

Dear Sue

I wonder if any of your readers can put me in touch with a knitting club in my area? I have had my knitting machine for a short while, during which time I have managed to attend a beginners and intermediate class. I am totally hooked but also extremely frustrated as I would love to be able to learn more. Meeting others who are interested in machine knitting and exchanging ideas must be the ideal way!

Yours sincerely,

Dee Barrell, Ashington, Essex

• *If anyone belongs to a suitable Club in this area please let us know and we will pass your letters on to Dee.*

Dear Sue

I have a couple of tips for chunky machine knitters.

When casting off stitches – for example, at the beginning of the armhole shaping – instead of casting off the given number of stitches at one side, then knitting across and repeating the procedure on the following row, cast off in the usual way at the right but use a separate length of main yarn to cast off the same number of stitches at the left on the SAME row. This keeps the work even and is especially useful to make the pattern match exactly.

To knit a mock rib on the chunky arrange the needles as usual and knit the required number of rows for the depth. Use a latch tool to latch up each bar between the knitted stitches and transfer it on to the empty needle (which should be brought forward into working position). Turn up the tension and continue knitting the main part of the garment.

These tips go back to my early machine knitting training when the 321 first came on the market but they may be of use to new knitters.

Yours sincerely,

Mrs E. Gilpin, Wallsend, Tyne & Wear

£5 REWARD!

We look forward to receiving your letters, hints and tips but do you know our new address:

Modern Machine Knitting
3 Bridge Avenue,
Maidenhead,
Berks SL6 1RR.

TREE PATTERN SWEATER

This unusual and eye catching Fair Isle design makes use of bold rust to highlight the tree pattern against the green and grey background. The comfort of cotton makes it a suitable garment for any season.

For standard gauge punchcard and electronic machines with ribbing attachment.

SIZES:
To fit 87–92 (97–102, 107–112) cms, 34–36 (38–40, 42–44) inch bust.

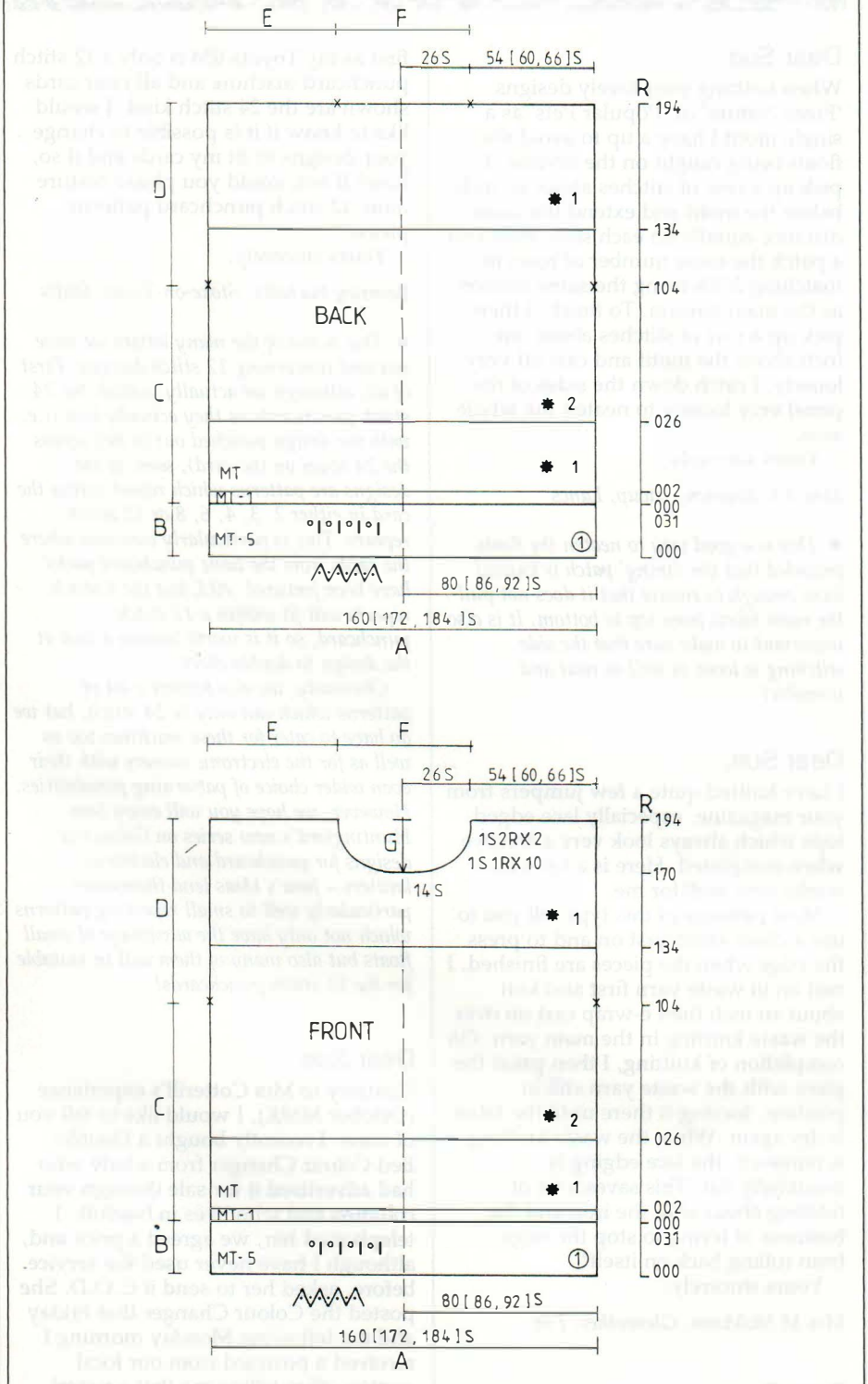
APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Carolina Cool Cotton.
Col 1 (Ascot Grey) – 1 × 500 grm cone.
Col 2 (Olive) – 1 × 500 grm cone.
Col 3 (Tan) – 1 × 500 grm cone.

TENSION:
Fair Isle – 29 sts and 34 rows to 10 cms.
TD at approx 8· (MT).

PATTERN NOTE:
Fair Isle – see charts 1 and 2.
Fair Isle Pattern 1
Col 1 in feeder 1, col 2 in feeder 2.
Fair Isle Pattern 2
Col 1 in feeder 1, col 2 in feeder 2, K 11 rows.
Col 1 in feeder 1, col 3 in feeder 2, K 4 rows.
Col 3 in feeder 1, col 2 in feeder 2, K 20 rows.
Col 1 in feeder 1, col 2 in feeder 2, K 1 row.

If you have any problems locating King Cole Carolina Cool Cotton, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

King Cole Ltd
Merrie Mills
Old Souls Way
Bingley
West Yorkshire BD16 2AX



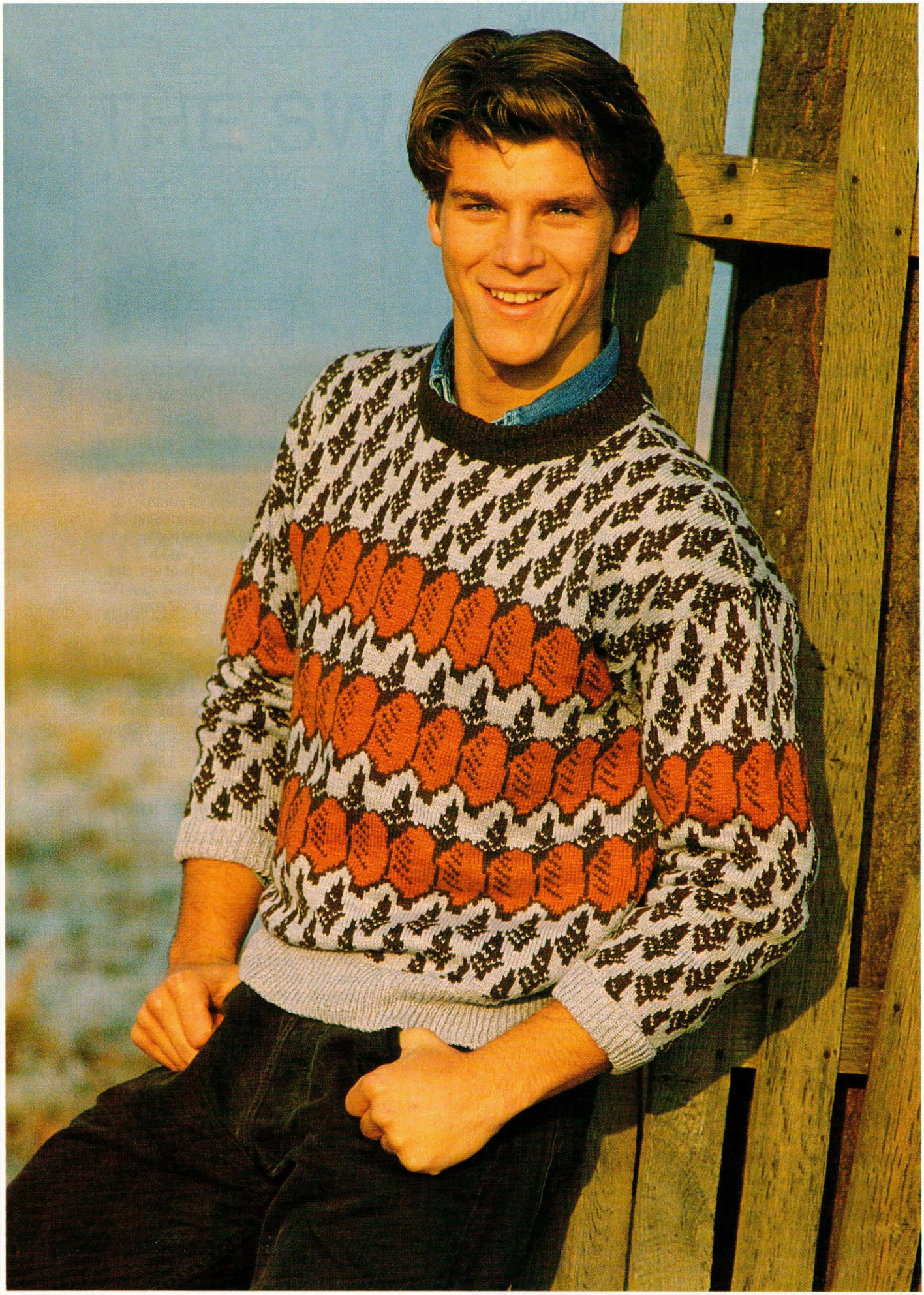
A = 55 [59, 63] CM	G = 7 CM
B = 7.5 CM	H = 25.5 CM
C = 30.5 CM	I = 42.5 CM
D = 26 CM	J = 52 CM
E = 18.5 [20.5, 22.5] CM	K = 48.5 CM
F = 16 CM	

BACK
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 80 (86, 92) Ns at left and right of centre 0 to WP. 160 (172, 184) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 5, K 31 rows. Transfer sts to knitter. Set RC at 000. Using MT – 1, K 2 rows. Using MT, cont in Fair Isle patt 1, K to row 26. Cont in Fair Isle patt 2, K to row 104. Place marker at each end. K to row 134. Cont in Fair Isle patt 1, K to row 194. Mark the 26th st at left and right of centre 0 with WY. Cast off.

FRONT
K as for back to row 170.
Shape Neck
Note position in patt. Shape as shown on diagram. 54 (60, 66) sts. K to row 194. Cast off. Keeping patt correct, K left part as for right part.

50▶

Pattern 7



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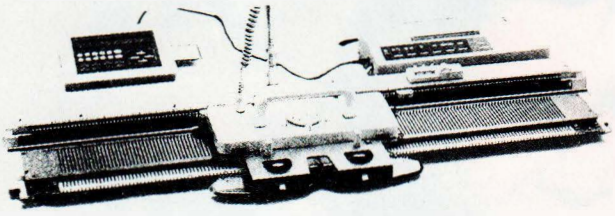

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Brother 710 Ribber	£?	Brother 940	£?
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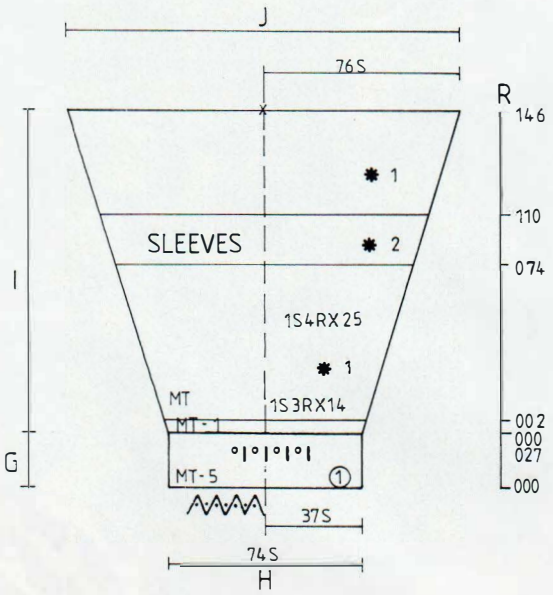
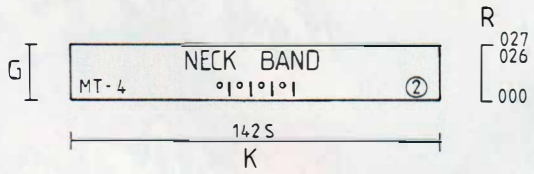
Pattern 7

◀48

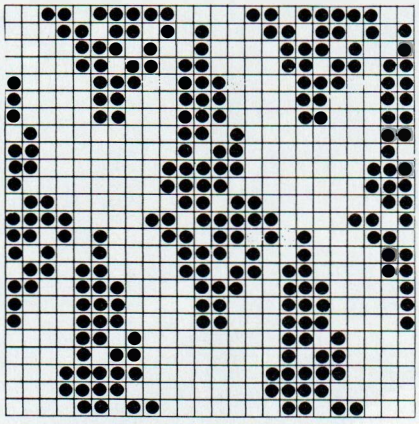


SLEEVES
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 37 Ns at left and right of centre 0 to WP. 74 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 5, K 27 rows. Transfer sts to knitter. Set RC at 000. Shape as shown on diagram, AT THE SAME TIME, using MT – 1 and col 1, K 2 rows. Using MT, cont in Fair Isle patt 1, K to row 74. Cont in Fair Isle patt 2, K to row 110. Cont in Fair Isle patt 1, K to row 146. 152 sts. Mark centre with WY. Cast off.

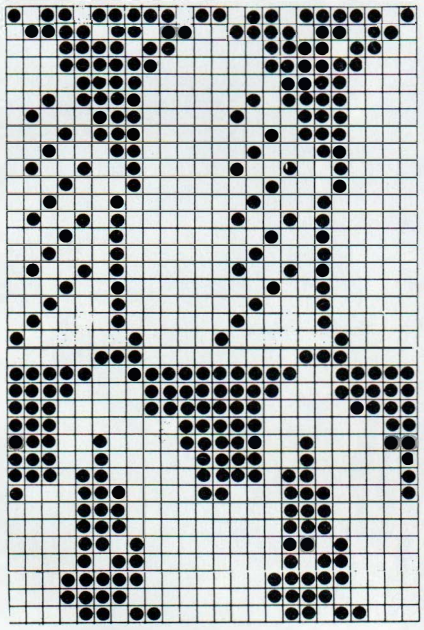


NECKBAND
With ribber in position and carriage at left, set machine for 1 × 1 rib. Using col 2, cast on 142 sts in 1 × 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 4, K 26 rows. Transfer sts to knitter. Using MT, K 1 row. Using WY, K a few rows and release from machine.

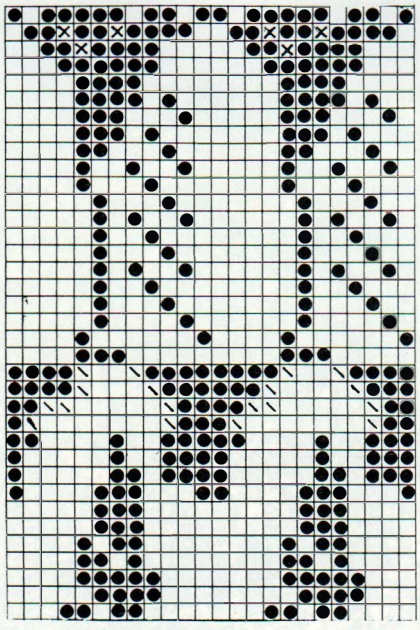
TO MAKE UP
Swiss darn as shown on chart. Pin out to size and steam carefully, allow to dry in shape. Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams. Backstitch neckband into position and join centre back seam. Fold in half and catch down on the inside. Give final light steam.



Card 1



Card 2



KEY

X = SWISS DARN IN COL 1 (OVER COL 3)

\ = SWISS DARN IN COL 2 (OVER COL 3)

Swiss Darning Chart

NEW

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Pattern 8

BRIAR ROSE SWEATER, LEGGINGS & SCARF

Knit this attractive polo necked sweater in two colour Fair Isle and Swiss darn the rose motifs in pretty shades of pink for a designer effect. The matching leggings use the reverse side of tuck stitch for a warm and comfortable feel and the cream ribbed scarf completes the total look.

For standard gauge punchcard or electronic machines with or without a ribber.

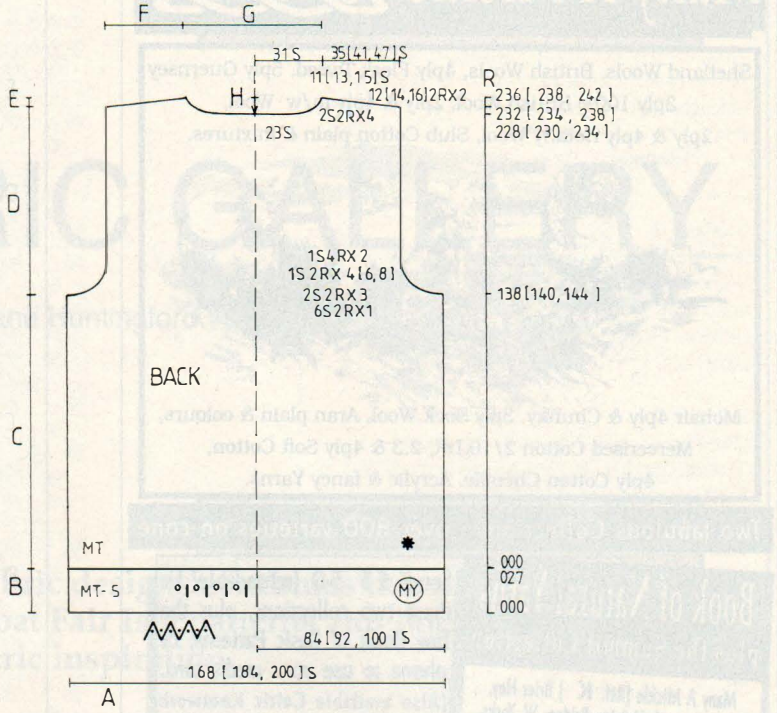
SIZES:
To fit 82–87 (92–97, 102–107) cms, 32–34 (36–38, 40–42) inch bust.
Leggings:
To fit hips 92 (97, 102) cms, 36 (38, 40) in.
Inside leg: 69 (70, 71) cms, 27¼ (27½, 28) in.
Scarf: One size 26 cms × 150 cms, 10¼ in × 59 in.

APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Anti-Tickle 4 ply.
Col MC (Aran) – 340 (390, 440) grms.
Col A (Linden) – 240 (290, 340) grms.
A small amount in col B (Pale Pink) and col C (Mid Pink).
Leggings
Col A (Linden) – 385 (430, 480) grms.
Scarf
Col MC (Aran) – 300 grms.

TENSIONS:
Briar Rose Sweater
Fair Isle Pattern – 31 sts and 35 rows to 10 cms. TD at approx 7.
Leggings
Tuck Stitch Pattern – 21 sts and 70 rows to 10 cms. TD at approx 7.
Scarf
Double Rib Pattern – 31 sts (on each bed) and 46 rows to 10 cms. TD at approx 3/3.

PATTERN NOTES:
Silver Reed Electronic Machines.
Place needle 1 cam between Ns 12 and 13 at left of centre 0. Press button 1 (left light on) and button 2 (left light on for 580 machines, right light on for other models).

A = 54 [59, 64] CM	I = 8 CM
B = 6 CM	J = 26 CM
C = 39 [40, 41] CM	K = 12 CM
D = 27 CM	L = 35 CM
E = 1 CM	M = 15 [16, 17] CM
F = 11 [13, 15] CM	N = 56 CM
G = 20 CM	O = 16 CM
H = 2 CM	



SWEATER
BACK
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 84 (92, 100) Ns at left and right of centre 0 to WP. 168 (184, 200) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using MC, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT–5/MT–5, K 27 rows. Transfer sts for st st.
MACHINES WITHOUT RIBBER
Push 84 (91, 100) Ns at left and 83 (91, 100) Ns at right of centre 0 to WP. 167 (182, 200) Ns. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MC, K 55 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed.
1st SIZE
Inc 1 st at right edge.
2nd SIZE
Inc 1 st at each end.
ALL SIZES
168 (184, 200) sts.
ALL MACHINES
Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in Fair Isle with MC in feeder 1 and A in feeder 2. Set RC at 000. Using MT, K 138 (140, 144) rows. Work measures 45 (46, 47) cm, 17¾ (18, 18½) in.
Shape Armholes
Cast off 6 sts at beg of next 2 rows and 2 sts at beg of foll 6 rows. Dec 1 st at each end of next and every foll alt row until 136 (148, 160) sts rem, then on every foll 4th row until 132 (144, 156) sts rem *. K 67 (63, 59) rows.
Shape Neck
Note patt row on card. Using a length of MC, cast off centre 46 sts. Using nylon cord, K 43 (49, 55) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Cast off 2 sts at beg of next and foll alt row.
Shape Shoulder
Cast off 12 (14, 16) sts at beg of next row, 2 sts at beg of next row, 12 (14, 16) sts at beg of next row and 2 sts at beg of next row. Cast off rem 11 (13, 15) sts. With carriage at right, unravel nylon cord over rem Ns, bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

FRONT
Work as for back to *. K 47 (43, 39) rows.
Shape Neck
Note patt row on card. Using a length of MC, cast off centre 30 sts. Using nylon cord, K 51 (57, 63) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Cast off 3 sts at beg of next and foll alt row, K 1 row. Cast off 2 sts at beg of next and foll 2 alt rows, K 1 row. Dec 1 st at beg of next and every foll alt row until 35 (41, 47) sts rem. K 6 rows.

54▶

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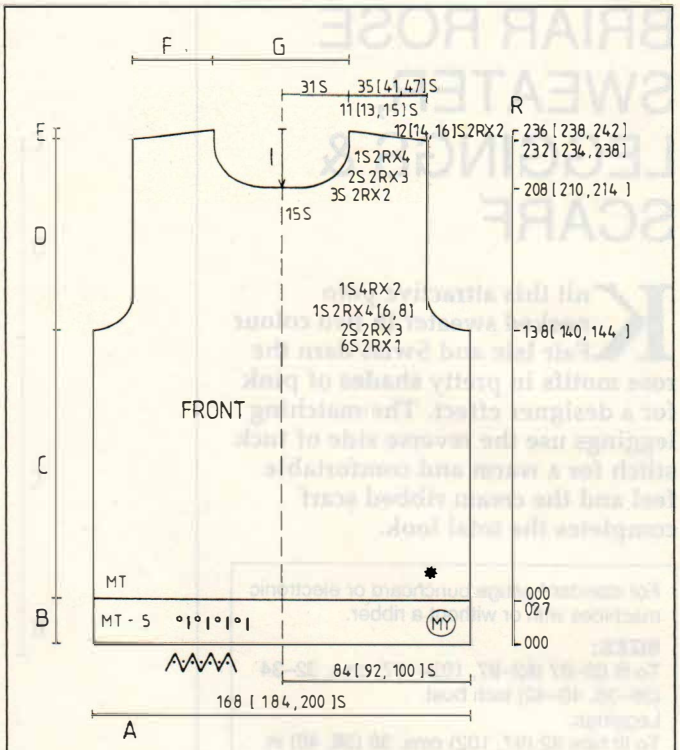
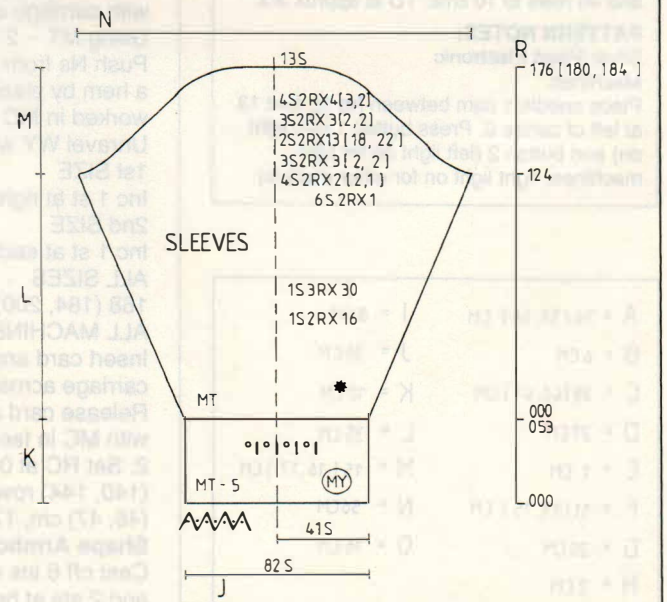
Pattern 8

◀53



Shape Shoulder
Cast off 12 (14, 16) sts at beg of next and foll alt row, K 1 row. Cast off rem 11 (13, 15) sts. With carriage at right, unravel nylon cord over rem Ns, bringing Ns back to WP. Lock card on number previously noted. Take carriage to left without knitting. Release card and cont in Fair Isle patt. Finish to correspond with first side, reversing shapings.

SLEEVES
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 41 Ns at left and right of centre 0 to WP. 82 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using MC, cast on and K 3



circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT–5/MT–5, K 53 rows. Transfer sts for st st.

MACHINES WITHOUT RIBBER

Push 40 Ns at left and right of centre 0 to WP. 80 Ns. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MC, K 107 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. Inc 1 st at each end. 82 sts.

ALL MACHINES

Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in Fair Isle with MC in feeder 1 and A in feeder 2. Set RC at 000. Using MT, shape sides by inc 1 st at each end of every alt row until there are 114 sts, then on every foll 3rd row until there are 174 sts. K 2 rows. RC shows 124 and work measures 35 cm, 13¾ in from top of rib.

Shape Top

Cast off 6 sts at beg of next 2 rows, 4 sts at beg of next 4 (4, 2) rows, 3 sts at beg of next 6 (4, 4) rows, 2 sts at beg of next 26 (36, 44) rows, 3 sts at beg of next 6 (4, 4) rows and 4 sts at beg of next 8 (6, 4) rows. Cast off rem 26 sts.

COLLAR

MACHINES WITH RIBBER

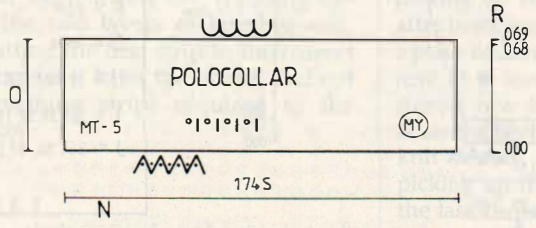
With ribber in position and carriage at right, set machine for 1 × 1 rib. Using MC cast on 174 sts in 1 × 1 rib. K 3 circular rows in reverse. Carriage is at right. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT–5/MT–5, K 68 rows. Transfer sts for st st. Using MT, K 1 row.

MACHINES WITHOUT RIBBER

Push 173 Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MC, K 34 rows. Using MT – 1, K 69 rows. Using MT – 2, K 34 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MC evenly along the row. Unravel WY when work is completed. Using MT, K 1 row.

ALL MACHINES

Using WY, K a few rows and release from machine.



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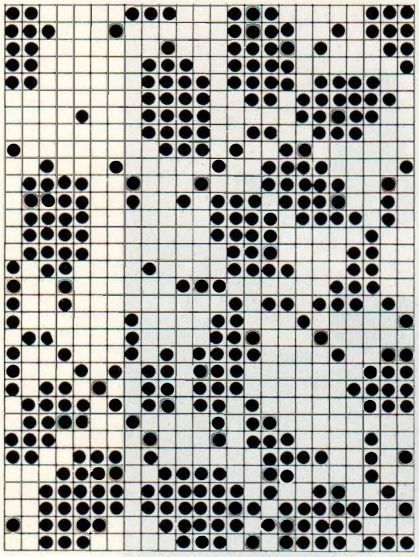
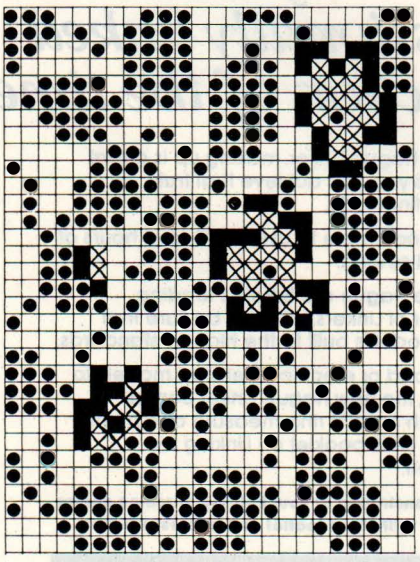
PRESSING
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

TO MAKE UP
Join shoulder, side and sleeve seams. Set in sleeves. Join collar seam. Pin collar into position. Unravelling WY as required, backstitch through open loops of last row worked in MC. Fold collar in half to outside.



Punchcard Chart



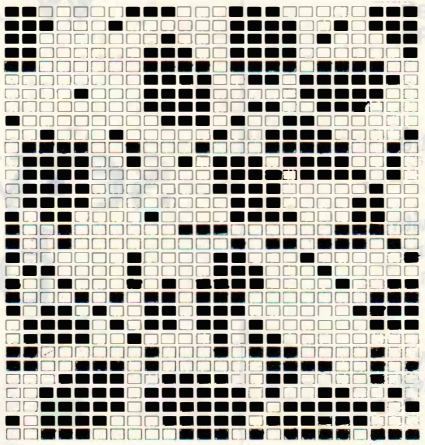
Swiss Darning Chart

KEY

■ COL 2

⊠ COL 3

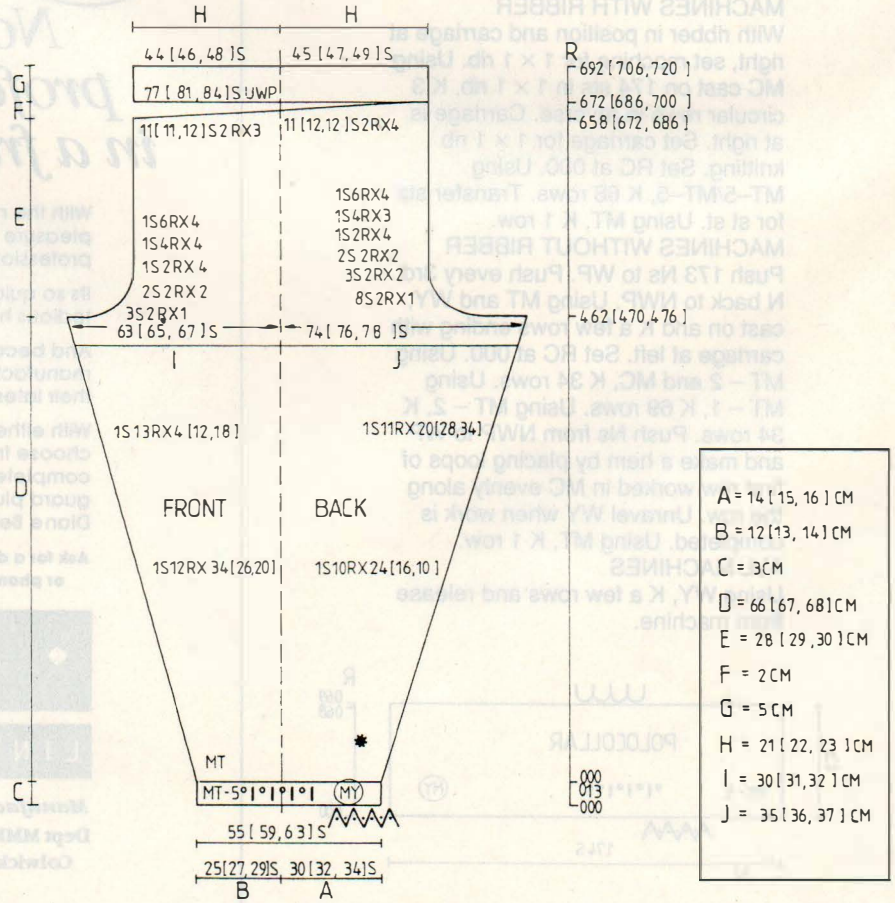
■ COL 4



Electronic Chart

LEGGINGS
FIRST HALF
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 25 (27, 29) Ns at left and 30 (32, 34) Ns at right of centre 0 to WP. 55 (59, 63) Ns. * Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using MY, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT–5/MT–5, K 13 rows. Transfer sts for st st *.
MACHINES WITHOUT RIBBER
Push 24 (27, 29) Ns at left and 29 (32, 33) Ns at right of centre 0 to WP. 53 (59, 62) Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MY, K 27 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed *.
1st SIZE
Inc 1 st at each end.
3rd SIZE
Inc 1 st at right edge.
ALL SIZES
55 (59, 63) sts.
ALL MACHINES
** Insert card and lock on first row. Take carriage across twice without knitting. Release card and cont in tuck st. Set RC at 000. Using MT, shape sides by inc 1 st at left edge on every 12th row 34 (26, 20) times, then on every foll 13th row 4 (12, 18) times and, AT THE SAME TIME, inc 1 st at right edge on every 10th row 24 (16, 10) times, then on every foll 11th row 20 (28, 34) times. 137 (141, 145) sts. K 2 rows. RC shows 462 (470, 476) and work measures 69 (70, 71) cm, 27¼ (27½, 28) in. K 1 row extra for second half.

Shape Crotch
Cast off 8 sts at beg of next row, 3 sts at beg of next 2 rows, 2 sts at beg of next row, 3 sts at beg of next row and 2 sts at beg of next 2 rows. Dec 1 st at beg of next row. Cast off 2 sts at beg of next row. Dec 1 st at beg of



next row. K 1 row. Dec 1 st at each end of next and foll alt row, K 1 row. Dec 1 st at right edge of next row, K 1 row. Dec 1 st at each end of next and every foll 4th row until 97 (101, 105) sts rem, then on every foll 6th row until 89 (93, 97) sts rem. K 142 (148, 156) rows. RC shows 658 (672, 686). (659 (673, 687) on second half.)

Shape Top

Set carriage for partial knitting. Push 11 (11, 12) Ns at opposite end to carriage to HP on next and foll 2 alt rows, K 1 row. Push 11 (12, 12) Ns at opposite end to carriage to HP on next and foll 3 alt rows, K 1 row. Push Ns from HP to UWP. Cont in st st. K 20 rows. Cast off **.

SECOND HALF

MACHINES WITH RIBBER

With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 30 (32, 34) Ns at left and 25 (27, 29) Ns at right of centre 0 to WP. 55 (59, 63) Ns. Work as for first half from * to *.

MACHINES WITHOUT RIBBER

Push 29 (32, 33) Ns at left and 24 (27, 29) Ns at right of centre 0 to WP. 53 (59, 62) Ns. Work as for first half from * to *.

1st SIZE

Inc 1 st at each end.

3rd SIZE

Inc 1 st at left edge.

ALL SIZES

55 (59, 63) sts.

ALL MACHINES

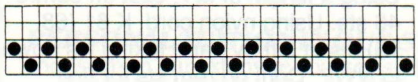
Work as for first half from ** to **, reversing shapings by noting alteration in number of rows worked and reading left for right and right for left.

PRESSING

With wrong side facing, pin out both pieces to measurements given. Press carefully following instructions on cone band.

MAKING UP

Join inside leg seams. Turn one leg inside out and insert one leg into another. Join crotch seam. Turn to right way. Fold st st in half to inside and catch down leaving an opening. Insert elastic and join ends. Close opening.



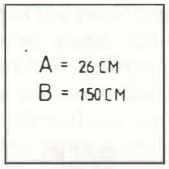
Punchcard Chart

Electronic Chart

SCARF

TO KNIT

With ribber in position and carriage at left, set machine for double rib. Push 81 Ns on each bed to WP for double rib. Using MY, cast on and K 3 circular rows. Carriage is at left. Set carriage for double rib knitting. Set RC at 000. Using MT/MT, K 690 rows. Cast off.



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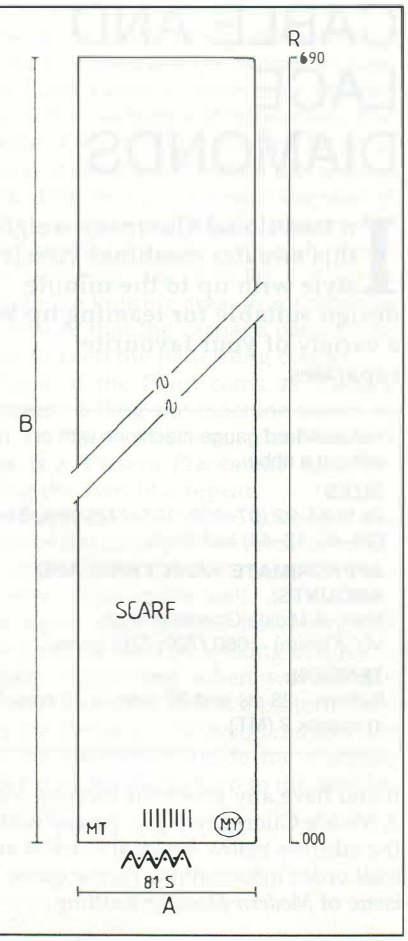

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CABLE AND LACE DIAMONDS

In traditional Guernsey weight, this sweater combines classic style with up to the minute design suitable for teaming up with a variety of your favourite separates.

For standard gauge machines with or without a ribber.

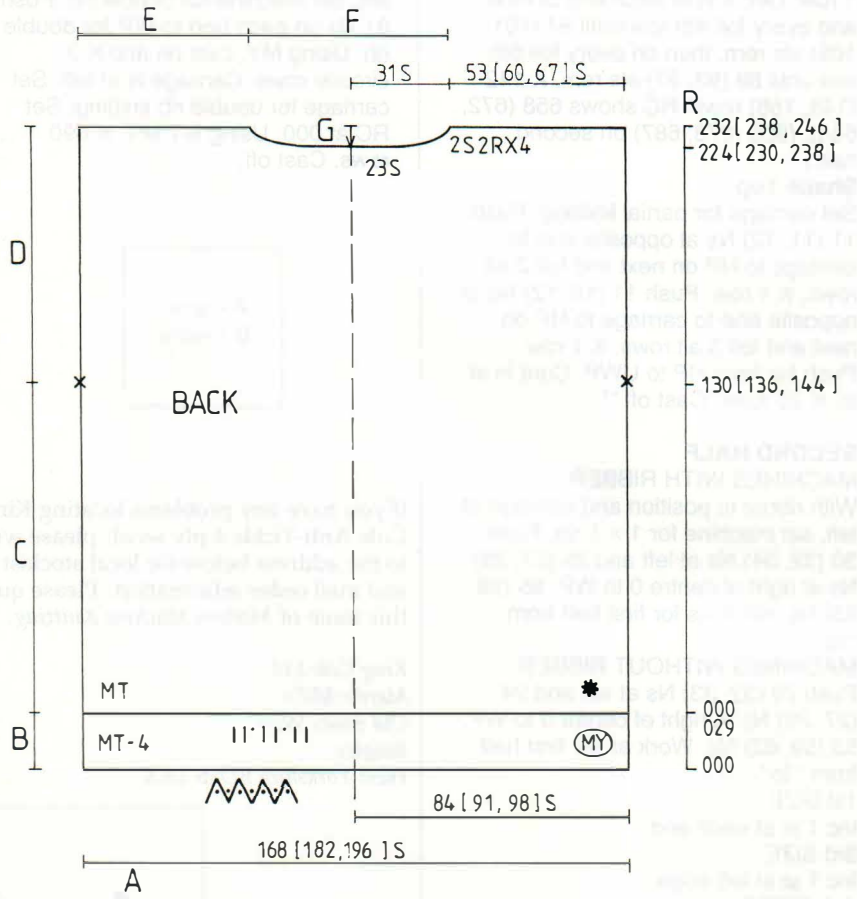
SIZES
To fit 87–92 (97–102, 107–112) cms, 34–36 (38–40, 42–44) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Many A Mickle Guernsey 5 ply.
MY (Denim) – 680 (720, 770) grms.

TENSION:
Pattern – 28 sts and 36 rows to 10 cms. TD at approx 9 (MT).

If you have any problems locating Many A Mickle Guernsey 5 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Many A Mickle at Brier Hey
Mytholmroyd
Hebden Bridge
West Yorkshire HX7 5PF



BACK
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 2 × 2 rib (2 × 1 N arrangement). Push 84 (91, 97) Ns at left and 83 (91, 97) Ns at right of centre to 0 to WP. 167 (182, 194) Ns. * Arrange Ns for 2 × 2 rib (2 × 1 N arrangement). Using MY, cast on and K 3 circular rows. Carriage is at left. Set machine for 2 × 2 rib knitting. Set RC at 000. Using MT – 4/MT – 4, K 29 rows. Transfer sts for st st*.
MACHINES WITHOUT RIBBER
Push 84 (91, 97) Ns at left and 83 (91, 97) Ns at right of centre 0 to WP. 167 (182, 194) Ns. * Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MY, K 59 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed*.

ALL MACHINES
1st SIZE
Inc 1 st at right edge.
3rd SIZE
Inc 1 st at each end.
ALL SIZES
168 (182, 196) sts. Set RC at 000. Using MT, cont in patt from chart. K 130 (136, 144) rows. Work measures 42 (44, 46) cm, 16½ (17¼, 18) in. Place marker at each end **. K 94 rows.

Shape Neck
Using a length of MY, cast off centre 46 sts. Using nylon cord, K 61 (68, 75) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Cast off 2 sts at beg of next and foll 3 alt rows. Cast off rem 53 (60, 67) sts. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Finish to correspond with first side, reversing shapings.

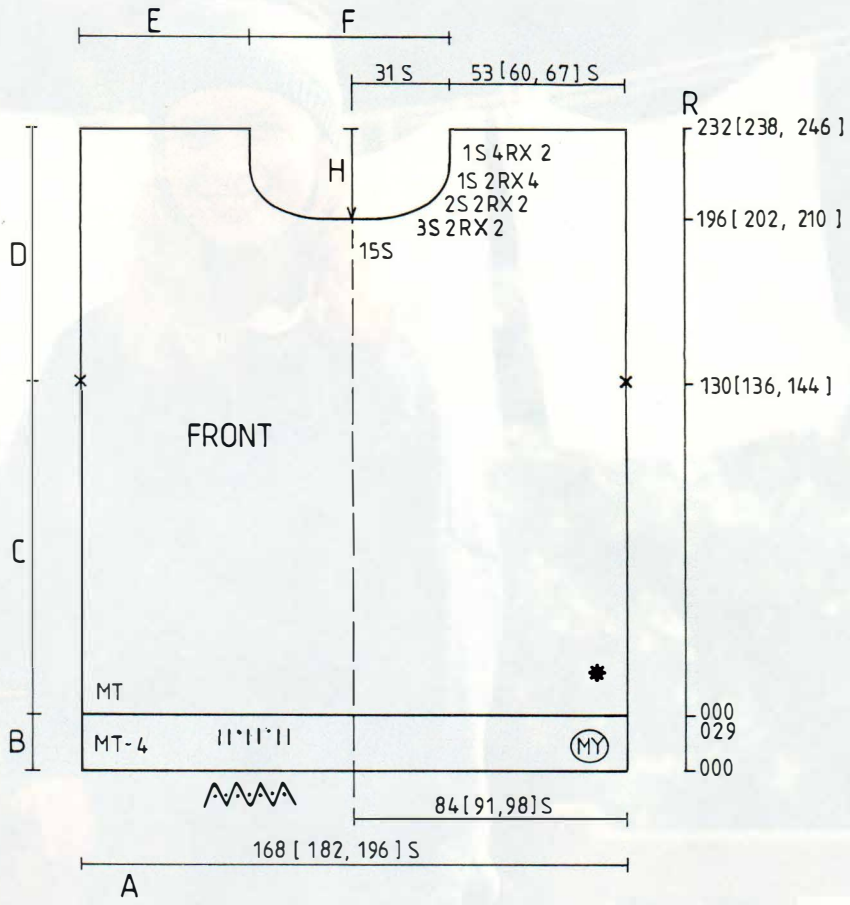
60▶

Pattern 9

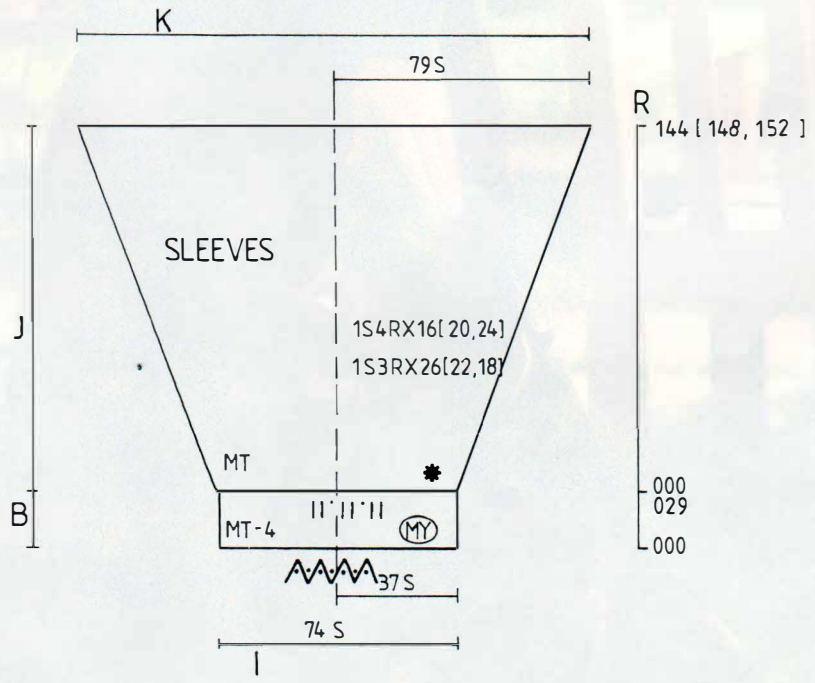
Pattern 9

◀58

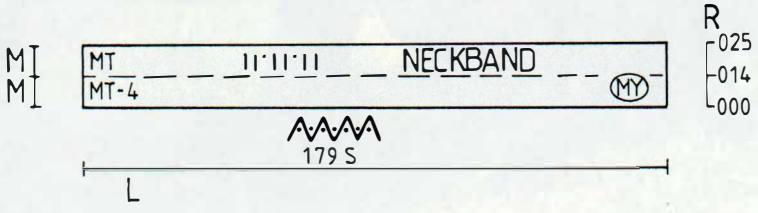
FRONT
Work as for back to **. K 66 rows.
Shape Neck
Using a length of MY, cast off centre 30 sts. Using nylon cord, K 69 (76, 83) sts at left by hand taking Ns down to NWP. Cont on rem sts for first side. K 1 row. Cast off 3 sts at beg of next and foll alt row, K 1 row. Cast off 2 sts at beg of next and foll alt row, K 1 row. Dec 1 st at beg of next and every foll alt row until 55 (62, 69) sts rem, then on every foll 4th row until 53 (60, 67) sts rem. K 12 rows. Cast off. With carriage at left, unravel nylon cord over rem Ns bringing Ns back to WP. Finish to correspond with first side, reversing shapings.



SLEEVES
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 2 × 2 rib (2 × 1 N arrangement). Push 37 Ns at left and right of centre 0 to WP. 74 Ns. Work as for back from * to *.
MACHINES WITHOUT RIBBER
Push 37 Ns at left and right of centre 0 to WP. 74 Ns. Work as for back from * to *.
ALL MACHINES
Set RC at 000. Using MT, cont in patt from chart. Shape sides by inc 1 st at each end of every 3rd row until there are 126 (118, 110) sts, then on every foll 4th row until there are 158 sts. K 2 rows. RC shows 144 (148, 152) and work measures 46 (47, 48) cm, 18 (18½, 19) in. Cast off.



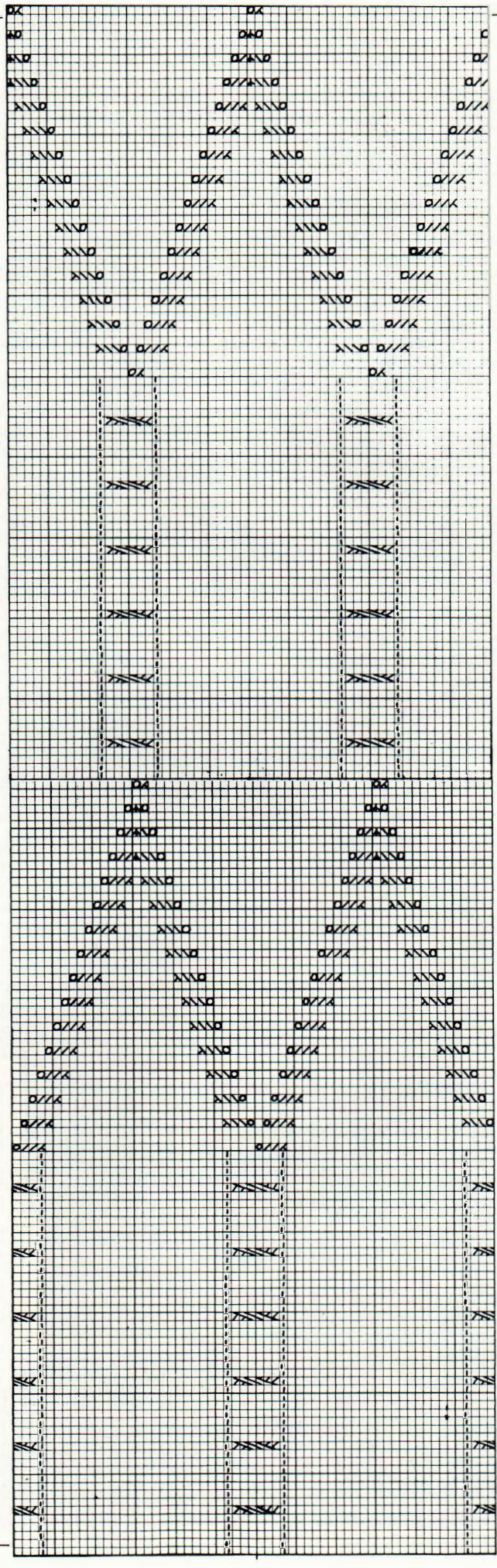
NECKBAND
MACHINES WITH RIBBER
With ribber in position and carriage at left, set machine for 2 × 2 rib (2 × 1 N arrangement). Push 179 Ns on both beds to WP. Arrange Ns for 2 × 2 rib (2 × 1 N arrangement). Using MY, cast on and K 3 circular rows. Carriage is at left. Set machine for 2 × 2 rib knitting. Set RC at 000. Using MT – 4/MT – 4, K 14 rows. Transfer sts for st st.
MACHINES WITHOUT RIBBER
Push 179 Ns to WP. Push every 3rd N back to NWP. Using MT and WY, cast on and K a few rows ending with carriage at left. Set RC at 000. Using MT – 2 and MY, K 29 rows. Push Ns from NWP to WP and make a hem by placing loops of first row worked in MY evenly along the row. Unravel WY when work is completed.
ALL MACHINES
Using MT, K 11 rows. Cast off.



PRESSING
With wrong side facing, pin out all pieces to measurements given. Press carefully following instructions on cone band.

TO MAKE UP
Join shoulder seams. Set in sleeves between markers. Join side and sleeve seams. Join neckband seam. Sew neckband into position and allow st st to roll to the outside.

A = 60 [65, 70] CM	H = 10 CM
B = 6 CM	I = 26 CM
C = 36 [38, 40] CM	J = 40 [41, 42] CM
D = 28 CM	K = 56 CM
E = 19 [21.5, 24] CM	L = 64 CM
F = 22 CM	M = 3 CM
G = 2 CM	



KEY

Using treble transfer tools, cross 3 sts at right in front of 3 sts at left.

Using latch tool, drop and reform stitch.

Using a treble transfer tool, transfer 3 sts to right. Leave empty N in WP.

Using a treble transfer tool, transfer 3 sts at left. Leave empty N in WP.

Using a double transfer tool, transfer 2 sts from left and right on to centre N. Leave empty N in WP.

Using a treble transfer tool, transfer 3 sts at left and right on to centre N. Leave empty Ns in WP.

Using a single transfer tool, transfer st from left and right on to centre N. Leave empty N in WP.

Using a single transfer tool, transfer st to adjacent N on right. Leave empty N in WP.

HOW TO WORK FROM A DIAGRAM PATTERN

The pattern instructions in Modern Knitting are in the form of a diagram pattern, which is by far the easiest form of knitting pattern to use. However, if you are not familiar with diagram patterns, Here's a step by step guide which will teach you to use this easy-to-follow pattern system. Study the symbols on next page carefully then work through the diagram following the written explanation alongside. You'll find it quite straightforward and, once you have knitted your first couple of patterns using this system, you'll wonder how you ever coped with those long winded written patterns.

First of all, take a look at the diagram itself. The diagram is divided into two halves. On the right side you'll find all the stitch and row references while on the left side you can see we've given all the measurements which will help you when pinning your knitted pieces out to size. In addition, you'll find certain items of information on the diagram such as the needle arrangement for the rib, the type of cast on you should do and any other relevant information you might need. As you can imagine, once you are familiar with this type of pattern, you'll be able to see at a glance just what's involved in the knitting of each design without having to read the whole pattern.

Starting at the lower edge, your first instruction is ∧∧∧∧ 60S. This tells you to cast on 60 stitches using the ribber.

ıı!ıı!ıı! tells you to arrange the needles for a 1 × 1 rib.

000 at the bottom right hand corner tells you to set your Row Counter to 000.

MT-3 tells you to set your Tension Dial to 3 numbers lower than the Main Tension.

The first row number given is 006, so knit to row 6.

The line across the diagram at row 6 tells you that you have finished knitting the rib, so transfer the stitches from the ribber to the main machine.

000 at the right hand edge tells you to turn your Row Counter back to 000.

MT tells you to set your Tension Dial to the Main Tension. Continue knitting until your next instruction which is on row 40.

The diagram pattern shows you that you are now at the stage for shaping the armholes. **Although the shaping instructions are shown on one side of the diagram only, they should be worked on both sides, since the diagram shows there is the same armhole shape on the left side.** If you find it easier to begin with, pencil in the same instructions on the left side to remind you that you have only been given the instructions for one armhole.

1S.1R×2 is the instruction.

1S tells you how many stitches to decrease.

1R tells you how many rows after each decrease.

×2 tells you how many times to decrease.

Therefore, 1S.1R×2 means:-

Decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit one row.

Decrease 1 stitch on both sides, knit 1 row.

The next instruction is 1S.2R×1. Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 2 rows.

The next instruction is 1S.3R×2.

Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 3 rows.

Decrease 1 stitch on both sides. Knit 3 rows.

Your next instruction is not until Row 68 therefore knit to row 68 without shaping.

The diagram pattern shows you that you are now at the stage for shaping the neck.

The symbol **V** tells you to divide the work in half and knit each side separately.

Therefore, either push the needles at left into holding position, or knit them onto waste yarn and remove from the machine. Now knit the right side as follows:—

5 S tells you that 5 stitches form the base of the neckedge.

Therefore, using a length of main yarn, cast off 5 stitches.

Your next instructions are for the neck shaping

2S.2R × 1
1S.2R × 2
1S.1R × 1

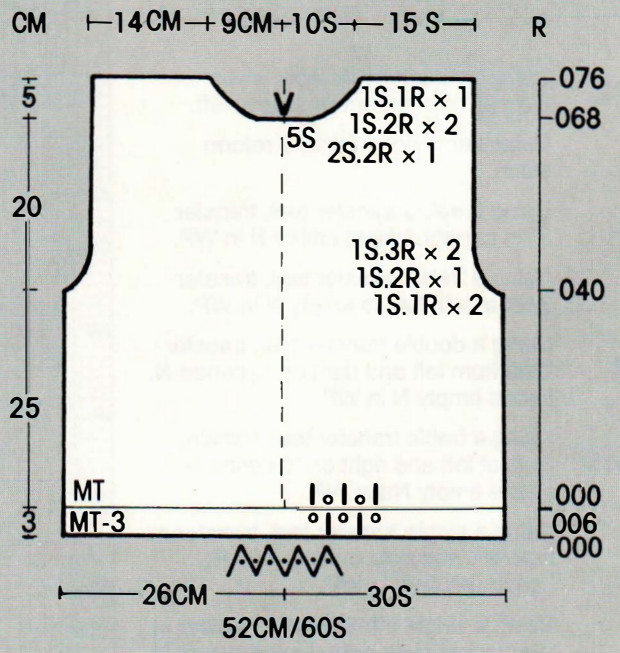
and should be carried out in the same way as before.

The last instruction is on row 76 where the straight line shows you should cast off the remaining 15 stitches.

Then, of course, you must turn the Row Counter back to 68 and knit the left half of the neck in the same way.

For those of you who are new to diagram patterns, the important points to remember are:—

1. The stitch, row and shaping references are on the right half of the diagram.
2. Shaping instructions are given for the right side of the diagram only. They should be repeated on the left if the diagram shows there is the same shape on the left.
3. A shaping instruction such as 2S.1R × 3 means decrease 2 stitches, knit 1 row, 3 times in all.
4. Don't worry too much if you find you're the odd row or stitch out on your first couple of attempts. Nobody will notice and you'll soon get the hang of using diagram patterns and wonder how you ever managed without them.



SYMBOLS FOR THE DIAGRAMS

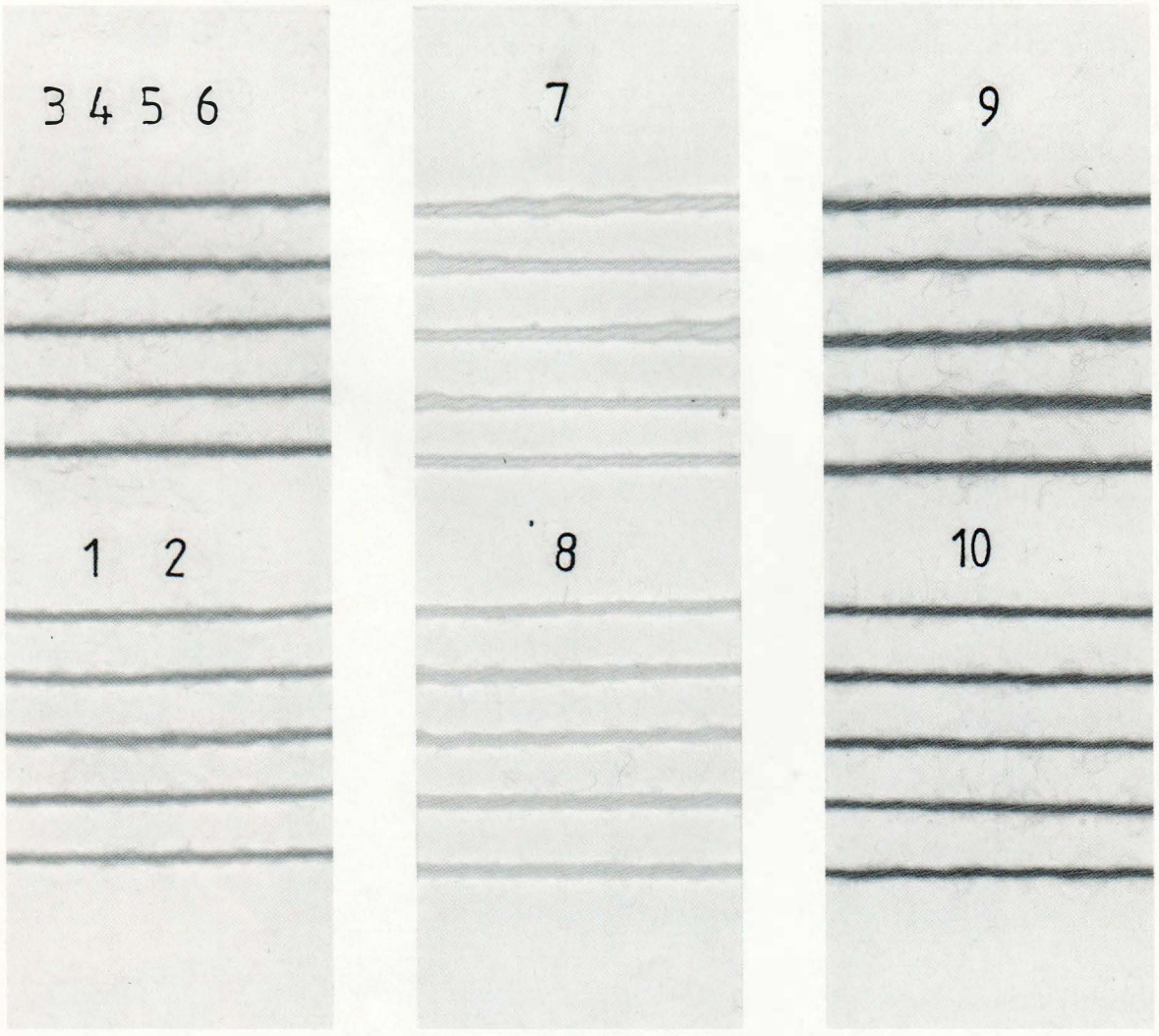
Closed edge cast-on	Turn up a hem
Cast-on using waste yarn	Pattern stitch
Closed edge cast-on with ribber	R — Row
Loose row	MT — Main Tension
Needle arrangement 1 = needle in work position 0 = needle in non-work position	V — Divide work in half and knit each side separately
	Repeat
S = Stitches	**2S.2R x 3** is an example of shaping instructions shown on the diagram. The shape of the diagram will indicate whether you are required to increase or decrease. 2S.2R x 3 would mean decrease (or increase) 2 stitches, knit 2 rows, 3 times in all.
( ) Larger sizes	
① Colour	

Abbreviations

Alt	— Alternate
Approx	— Approximately
Beg	— Beginning
Carr	— Carriage
Cm(s)	— Centimetre(s)
Col	— Colour
Dec	— Decrease
Ev	— Every
Foll	— Following
HP	— Holding Position
Inc	— Increase
MT	— Main Tension
N	— Needle
Ns	— Needles
NWP	— Non Working Position
Patt	— Pattern
Pos	— Position
Rept	— Repeat
Rem	— Remaining
RC	— Row Counter
St	— Stitch
Sts	— Stitches
TD	— Tension Dial
Tog	— Together
UWP	— Upper Working Position
WP	— Working Position

YARNS USED IN THE PATTERNS

For your reference we have included an actual size representation of the yarns we have used in the patterns this month. You may find it useful to see how each particular yarn looks before it has been knitted into a garment and it will be particularly useful when we haven't quoted a brand of yarn, simply a type of yarn.
Our overseas readers will also find it helpful since not all the yarns will be available in all countries. However, having said that, it will certainly be worthwhile writing to the spinners listed in our Stockist Information to see if there is an overseas mail order service available.



Pattern 10

RIBBED LACE YOKE SWEATER

For a real change of style from the baggy look, knit this fitted ribbed sweater in a soft colour tone to wear with jeans or skirts. The lace yoke and attractive collar add a touch of 'forties' styling for a fashionable spring top.

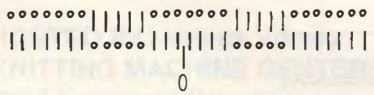
For standard gauge machines with ribbing attachment.

SIZES:
To fit 81 (86–91) cms, 32 (34–36) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Anti-Tickle 4 ply.
Col 1 (Linden) – 1 × 500 grm cone.

TENSIONS:
5 × 7 Rib – 37 sts (slightly stretched sideways) and 40 rows to 10 cms (after pressing). TDs at approx 7 (MT).
Stocking Stitch with 5 × 7 Rib Panel – 35 sts and 43 rows to 10 cms (after pressing). TDs at approx MT.

PATTERN NOTE:
5 × 7 Rib Pattern A – needle arrangement



I = Ns in WP.
o = Ns in NWP.

Lace Rib Pattern B – see chart.
Ribber side is used as right side.

If you have any problems locating King Cole 4 ply wool, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

King Cole Ltd
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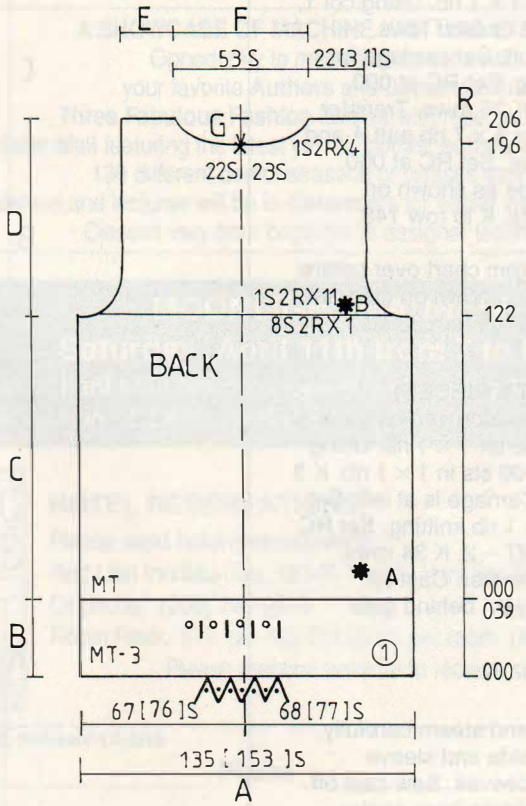
West Yorkshire BD16 2AX

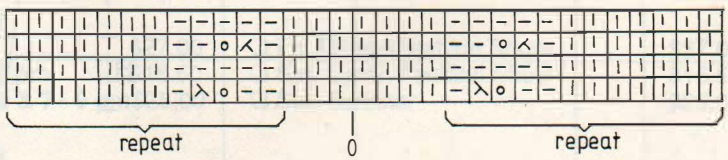
BACK
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 67 (76) Ns at left and 68 (77) Ns at right of centre 0 to WP. 135 (153) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 3, K 39 rows. Transfer sts for 5 × 7 rib patt A. Set RC at 000. Using MT, K to row 122.

Shape Armholes
Cont in patt B from chart. Shape as shown on diagram. 97 (115) sts. K to row 196.

Shape Back Neck
Mark centre st with WY. Shape as shown on diagram to row 206. Cast off rem 22 (31) sts very loosely. K left part as for right part.



Lace Rib Pattern B



= N on knitter
= N on ribber
= Transfer st to adjacent N at right. Leave empty N in WP
= Transfer st to adjacent N at left Leave empty N in WP

66▶

Pattern 10

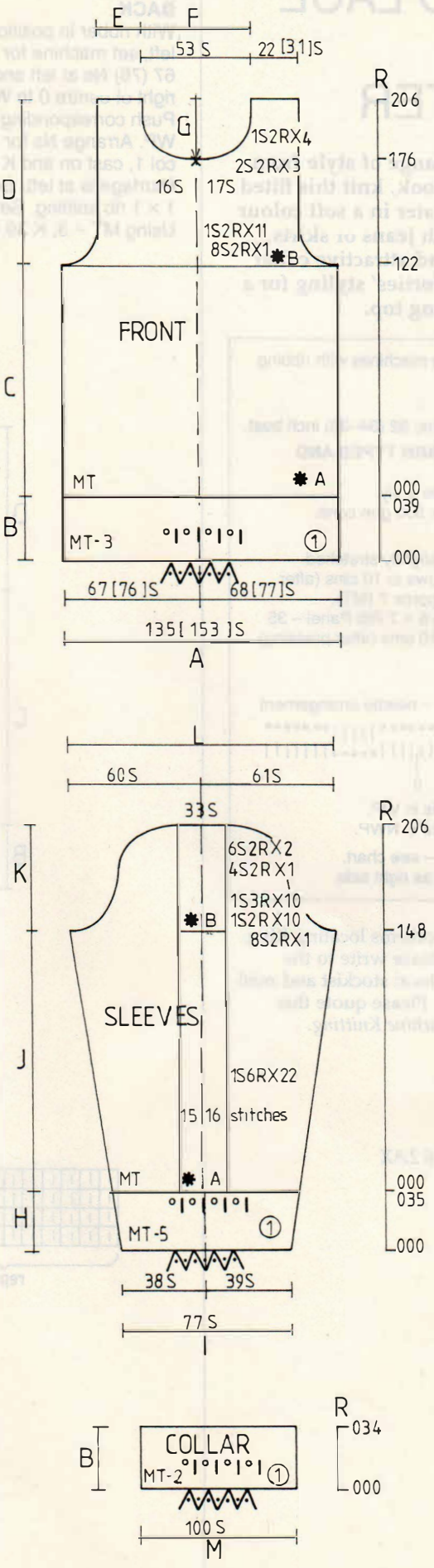
◀65

FRONT
K as for back to row 176.
Shape Neck
Mark centre st with WY. Shape as shown on diagram to row 206. Cast off rem 22 (31) sts very loosely. K left part as for right part.

SLEEVES
With ribber in position and carriage at left, set machine for 1 × 1 rib. Push 38 Ns at left and 39 Ns at right of centre 0 to WP. 77 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1 × 1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 5, K 35 rows. Transfer centre 31 sts for 5 × 7 rib patt A and rem sts to knitter. Set RC at 000. Using MT, shape as shown on diagram. 121 sts. K to row 148.
Shape Top
Cont in patt B from chart over centre 31 Ns. Shape as shown on diagram to row 206. Cast off rem 33 sts.

COLLAR (KNIT 2 PIECES)
With ribber in position and carriage at left, set machine for 1 × 1 rib. Using col 1, cast on 100 sts in 1 × 1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1 × 1 rib knitting. Set RC at 000. Using MT – 2, K 34 rows. Transfer sts to knitter. Cast off loosely, taking yarn behind gate pegs.

TO MAKE UP
Pin out to size and steam carefully. Join shoulder, side and sleeve seams. Set in sleeves. Sew cast off edge of collar pieces from centre front to centre back neck. Give final light steam.



A = 36 [41] CM	H = 7.5 CM
B = 8 CM	I = 22 CM
C = 30.5 CM	J = 34 CM
D = 21 CM	K = 13.5 CM
E = 5.75 [8.25] CM	L = 34.5 CM
F = 14.5 CM	M = 20 CM
G = 2.5 CM	[unstretched]

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'ZIPPY 90' knitmaster, hardly used, extra patterns, ideal starter machine, £85. Tel: (0635) 27402 (Newbury).

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SINGER Designer 2 chunky knitting machine, Video, accessories, v.g.c., £85 ono. Needle selector for Designer 2 and Big Nine, £15 ono. Tel: (0444) 230210 (Burgess Hill).

BROTHER Lace carriage to suit KH910, £30. Tel: (0908) 510163 (Milton Keynes).

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TOYOTA K901, KR501 ribber, K33 knit tracer, lace carriage, tilt table, £400. Tel: 071–701 2130 (SE London).

BOND Classic, unused with video instruction, £70 ono. Tel: (0772) 421041 (Preston).

BROTHER 881, lace carriage, built in knitleader, intarsia, table, books. Hardly used, excellent condition, except slight damage on lid, hence £250. Tel: 07254 603 (Wimborne).

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BROTHER 230 Chunky knitting machine, plus 230 ribber, built in intarsia, table, £250 ono. Tel: (0705) 699688 (Portsmouth).

BROTHER KR830 Ribber, £125 ono, fits punchcard machines. Tel: (0444) 230139 (Burgess Hill).

TOYOTA 858 punchcard knitting machine, lace carriage, punchcards, accessories, wool winder, patterns, as new, £110 ono. Tel: (0703) 893716 (Southampton).

BROTHER KH891 with lace carriage, knitleader and all accessories, perfect condition, will demonstrate, £300. Tel: (0622) 676548 (Maidstone).

BROTHER KR260 ribber, unused, boxed, £200. Table, £10. Yarn brake, punch, skirt steaming kit, wool winder, books, offers. Tel: 081–856 9428 (Bexley, Kent).

BROTHER 881 and ribber, table, transfer carriage, wool winder, linker (small) spare arm, £400. Tel: 081–804 5713 (Enfield).

TOYOTA single bed four way colour changer, as new in box, £45. Diane Bennett 'Single bed colour changer' for Toyota, (Book), £3. Tel: (0582) 873267 (Dunstable).

BROTHER intarsia carriage KH8210 as new, £20. Will post if required. Tel: (0733) 578561 (Peterborough).

TOYOTA KS901, lace carriage, punchcards, instruction and tuition books as new, £300. Tel: (0274) 603565 (Bradford W. Yks).

BROTHER KH270 electronic Chunky, ribber, intarsia, table, ribber covers. Cost £1130 bargain £775 or consider exchange Brother KH950i with ribber. Cash adjustment considered. Tel: (0733) 578561 (Peterborough).

ZIPPY '90' plus unused intarsia carriage, offers or swap for LC2 Lace carriage and some pattern books. Tel: (0771) 871 (Strichen).

BOND Chunky machine, row counter, extention kit, yarn grabbers, instruction books, patterns, £65. Tel: (0763) 261504 (Royston).

KNITMASTER fine gauge, lace carriage, ribber, punch, radar, cards, books, £450. Knitmaster Electric Linker, £200. Trans carriage, £15. Vigorelli sewing machine £80. Tel: (0952) 884090 (Telford).

FOR SALE

BROTHER KH830 with KR850 ribber, lace carriage, table, knitleader, transfer carriage, intarsia carriage, single and double bed colour changers, wool winder, punch and roll. Books including hard backs, many punched cards, £500. Tel: (0282) 74081 (Padiham).

KNIT Leader fits Jones 260, 840 etc. hardly used, as new cost £90 accept £50. Tel: 071–231 9012 (London).

KNITMASTER 151 Chunky knitting machine plus ribber as new, all boxed, plus pattern selector, £275. Tel: (0272) 783841 (Bristol).

PFAFF DUO805 double bed, four colour change, Deco, form computer, plus heavy duty two speed motor, manuals, knitting books, pattern punch, hardly used. £500. Tel: (0666) 822409 (Malmesbury).

KH950 little used unwanted gift, £650. 881 Brother with built-in knitleader, £200 ono. Keyto Cabinet, £100. Tel: (0423) 504431 (Harrogate).

BROTHER knit ribber attachment KR230, unwanted gift new, still boxed, £115 ono. Tel: (0452) 613837 (Gloucester).

BROTHER 881 Lace and intarsia carriages, instructions, plus 12 kilos coned yarn, loads of punchcards. £260. Tel: (0268) 521728 (Billericay).

TOYOTA 858 punchcard machine, excellent condition includes lace carriage, punchcards, cones of wool. Does tuck, slip, fairisle, lace. Full instructions. £120. Tel: (0274) 604283 (Bradford).

TOYOTA KS901 plus ribber, lace carriage, intarsia, colour changer, linker, knit tracer, including many accessories, punchcard etc. good condition, £300. Tel: 081–305 2118 (S. London).

SINGER Big nine, chunky knitter (126 Needles) with video, £100, also KR7 knitradar, £50 both never used, would post, plus postage. Tel: (0532) 868635 (Leeds).

CHUNKY 155 knitmaster, as new, fairisle, tuck, slip etc. plus ribber, £450 ono. Tel: (0489) 891160 (Southampton).

BROTHER 260 Chunky and ribber, intarsia carriage, knitleader, table, woolwinder, books and yarn, ribber covers. All as new, hardly used, £525. Tel: (0992) 762963 (Enfield).

LACE CUSHIONS, Bobbins, Cottons, Books, etc. for sale cheap. Owner's sight now not so good. Tel: (0489) 891160 (Southampton).

KNITMASTER 700, Radar, intarsia, lace carriage, punchcards, punch, £350. Knitmaster electronic 560, radar, intarsia, £400. SRP50 Ribber, £100. (viewing possible Farnham or Stalbridge, Dorset). Tel: 025–125 3004 (Farnham).

KNITMASTER 326 with table, extra feeder, hole punch, wool winder, three instruction books in very good condition, £150. Tel: (0926) 496857 (Warwick).

BOND Classic with table, extensions, row counter, intarsia plate, weights, woolwinder, video, used for 4 garments only, £95 inc. carriage. Tel: (0502) 517362 (Lowestoft).

PASSAP duomatic 80 complete with four colour changer and Deco plus manuals, £280. Tel: (0533) 776254 (Leicester)

JONES/Brother 800 machine and ribber, stocking stitch, fairisle, tuck, weaving, lace on 12 stitch repeat, in good order, professionally checked, £125. Tel: (0865) 54831 (Oxford).

KNITMASTER SRP 50 Ribber, £130. Tel (0425) 638087 (Hampshire).

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KNITMASTER 560 Electronic, £300; KM155 Chunky with tilt table, £240; KM370 fine gauge with knit radar, £240; selling because now using silver system. Tel: (0383) 414283 (Inverkeithing).

FOR SALE

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PASSAP 6000E with motor, autocolour, tricofit, U100E. Extra accessories including combs and weights, books, cards. 2 years' old but little used, £1400. Tel: 071–586 7868 (London NW).

BROTHER 881 Knitleader, cards, instructions, extra patterns, books (boxed) vgc, £220 ono. Singer basic machine (still boxed) suit beginner, £60 ono. Tel: (0205) 79439 (Boston).

KNITMASTER 360KL, SRP60N Ribber, lace carriage, Intarsia carriage, instruction books, punchcards, punch. Excellent condition, £295. Tel: 081–941 5823 (Hampton Middx).

KNITMASTER 260 punchcard machine, knitradar, instruction books, all tools, immaculate, £175. Tel: (04023) 47222 (Romford, Essex).

TOYOTA KR501 ribber fits 901, 950, £150, pop punch £5. Apply 17 Nobes Avenue, Bridgemary, Gosport, Hants.

BROTHER 891, good condition, £250, Singer magic memory, £50, Knitmaster empisal 160 hand knitter, £60, Knitmaster 302, £40. Tel: 081–593 8060 (Dagenham).

PASSAP form computer. Excellent condition, will post, £85. Tel: (0248) 852703 (Benllech).

BROTHER KH836 with punchcards and puncher, mint condition, hardly used, £190. Electronic machine wanted, will collect. (0623) 861158 (Mansfield).

FOR SALE

TOYOTA K901 with ribber, tracer, lace and Intarsia carriages, rib transfer carriage, punchcards and punch, tilt table, manuals and books, £400. Tel: (0737) 552772 (Surrey).

BOND Classic, table, row counter, extension kit, magazines etc, bargain, £60. Tel: (0530) 412733 (Ashby, Leics).

SINGER Memomatic lace carriage. £90, Brother 360 lace carriage, dust cover, punch, punchcard roll, table, instruction cassette, pattern books. Used twice, £220 ono. Tel: (0373) 463664 (Frome).

PASSAP books, Mary Weaver, Kathleen Kinder; also model books and others. Immaculate condition. Full details (evenings please). Tel: (0487) 812149 (Ramsey, Cambs).

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SINGER Electronic machine, table, tapes, books etc., £75. Tel: 351076 (Bangor, Gwynedd).

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BROTHER KH891 knitting machine with lace carriage, Knitleader, table, Intarsia carriage, KG89 II garter carriage, cone winder, wool and magazines. All hardly used, £550 ono. Tel: (0270) 68844 (Crewe).

TOYOTA 901 plus ribber, knit tracer, colour changer, extra arm so you still use ribber same time, £275. Tel: 081–801 1750 (London).

BROTHER KH881, ribber KR830, Intarsia, lace transfer carriages, two winders, A to Z and many other books, wool, punches, punchcards etc plus Knitmaster 306 auto., £325. Tel: (0889) 565610 (Staffs).

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BOND knitting machine, row counter, extension kit, Intarsia carriage and books, as new still in box, £90. (With table £98). Tel: (0209) 210287 (Redruth).

JONES Knitleader boxed, £65; or swap for Knitradar; 4 thread overlock machine hardly used boxed, £190 or swap for Silver Reed SK890 Chunky needlebed. Tel: (0929) 423077 (Swanage).

SINGER Freestyle electronic 2310, hardly used, £400. (Cost £780), would send if desired. Tel: (0532) 868635 (Leeds).

BROTHER 260 Chunky, £250, Intarsia carriage, £20, Knitleader, £50. Garter bar set, £20, Marion Nelson Chunky pattern cards, £2 or £335 the lot. Tel: (0202) 895613 (West Moors).

PASSAP instruction tapes, £10, (3), Linker, £25 (KA8310), Punchcard pattern book volume 3, £8. Mary Weaver's knitted skirts, £5. Tel: (0723) 862952 (Scarborough).

BROTHER KH891 punchcard, built in Knitleader, lace carriage, Intarsia carriage, punch, £275. Tel: (0344) 775073 (Camberley, Surrey).

PASSAP Duomatic 80, 4 colour changer on solid stand, double bed built in ribber, 24st decocard, used very little, excellent condition, £400. Tel: (0246) 434390 (Nr. Sheffield).

BROTHER Chunky knitting machine with ribber, stand, plus large cone of wool, perfect, KH230, £350. Tel: 051–722 0899 (Liverpool 16).

BROTHER KH710 with lace carriage plus instruction book, £90. Brother ribber for KH710, new, still in packing case, £100. Tel: (0298) 79853 (Buxton).

KNITMASTER SK580 with PE1, SRP60N ribber, YC6 colour changer, plus many extras, £750, hardly used. Electric linker, as new, £175. Tel: 081–878 9474 (Richmond, Surrey).

TOYOTA 901, lace carriage, accessories, table in good condition. Hardly used, £300. Tel: (0249) 441067 (Chippenham).

DOUBLE sided design board, new, £20. Various Marion Nelson pattern cards sets. Anna Stevens ladies basic book, other pattern books. Various cones 4 ply yarns. Tel: (0502) 565624 (Lowestoft).

FOR SALE

KNITMASTER Electronic 580, PE1 design controller, lace carriage, keyto cabinet plus extra mylar sheets, little used, £700. Tel: 061–652 7943 (Oldham).

KNITTING machine cabinet as new, £80. Tel: (0829) 733414 (Tarporley).

BROTHER 260 Chunky with table, Intarsia carriage, pattern books, approx twenty cones of yarn, £400 ono. Tel: (0793) 512199 (Swindon).

KNITMASTER 326 punchcard machine, built in knitradar, £95 complete with accessories and manual, ribber SRP60N hardly used, £195, MC6 colour changer new still boxed, £100. Tel: (0225) 742967 (Bath).

PASSAP double bed with Deco and four colour changer, many extras, manual and Mary Weaver inst. books, £400. Sale due to illness. Tel: 061–665 2233 (Oldham).

JONES Brother KH588 knitting machine with lace carriage, KR586 ribber and KL111 Knitleader, £100. Will possibly separate. Tel: (0251) 264392 (North Hants).

KNITMASTER 700K machine, immaculate, standard gauge, built in Knitradar, Intarsia etc., in original packing, £275. Reluctant sale but have gone electronic. Tel: (0858) 464545 (Market Harborough).

BROTHER KH950 plus table, books and some cones. Used once only as new, £650. Tel: (0222) 482953 (Cardiff).

BROTHER KH260 and KR260. Knitmaster 580 Designmaster, RP50, SC1 and YC5. Powerknit motor with stand and row countdown. All as new. Reasonable offers. Tel: (0492) 877587 (Llandudno).

SINGER system 9000 knitting machine, complete with colour TV. Colour changer etc. (unwanted gift), £1,200. Tel: 0889-582765 (Rugeley, Staffs).

KNITMASTER 155 Profesional Chunky. Excellent condition, little used. Punchcards, holepunch, cone winder, spare cones, all accessories, £200 for everything. Tel: (0761) 432749 (Nr. Bath).

BROTHER KH830 punchcard machine, nearly new, £150. KH710 with ribber, £100. KL116 Knitleader still boxed, £50. Tel: (0706) 212903 (Rossendale).

PASSAP Duomatic 80 4 colour changer, Deco Form computer books, tapes, £425. Tel: (0638) 720879 (Cambs) evenings.

BOND knitting machine, extended bed row counter, yarn grabbers, table, wool patterns, £90. Tel: (0962) 868301 (Winchester).

KNITMASTER Chunky 151 with ribber, little used, £220. Knitmaster Chunky 155 punchcard machine with ribber, £350, both boxed. Tel: 68439 (Honiton, Exeter).

BROTHER 710. Lace carriage, carrying case, good condition ideal for beginner. Will demonstrate, £80. Tel: (0532) 311636 (Leeds).

POWERKNIT motor, row countdown, yarn stop motion. 4 end for Brother and Knitmaster, also stand, £350. Tel: (0734) 784928 (Reading area).

BROTHER 840 knitting machine with punch cards, lace carriage, instruction book, knits 4 ply to double knit. Excellent condition, £220 ono. Tel: 021–472 8172 (Selly Oak) after 6pm.

KNITMASTER 560 Electronic with lace carriage and ribber, £500. Knitmaster 370 fine knit with ribber as new, £350. Brother 910 MK II Electronic, £395. Tel: (0533) 830273 (Leicester).

KNITMASTER Zippy 90, vgc, £80 ono. Knitmaster LC2 lace carriage, vgc, £70 ono. 260K/360K 600K/700K. Tel: (0992) 27426 (Herts).

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TOYOTA KS858 push-button knitting machine, £120 ono. Tel: Ginaon 081–655 1501 (South Norwood).

KNITMASTER 326 punchcard, radar, ribber, transfer carriage, intarsia carriage, colour changer, four cones, winder. Reasonable offer for any item considered. Tel: (0742) 350996 (Sheffield) evenings.

KNITMASTER ribber SRP50 with instruction book, £100. YC5 colour changer, punchcards, instructions and beginners guide to double Jacquard, £50. Tel: (0484) 426586 (Huddersfield).

BROTHER Electronic 950i plus PPD, £900, negotiate swap for Singer 9000. Old Pink Passap, £80, consider swap for Basic Chunky 891. Tel: (0793) 536124 (Swindon).

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BROTHER 260 Chunky punchcard, with ribber, Intarsia, Knitleader, colour changer, punch, table, hardly used, £600. Tel: (0525) 377333 (Leighton Buzzard) after 6pm or week-ends.

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BROTHER KH881, Knitleader, lace carriage, £200. 850 ribber, £180. Tilt table, £10. Linker, £40. Transfer car, £30. Intarsia, £25. Hague Linker used once, £130. All boxed as new. Tel: 081–561 5951 (Hayes, Middx).

SILVER Reed Electronic SK890 Chunky machine, £600 ono. Also Chunky Ribber SR155 fits above or 155 Punchcard machine, £150. Tel: (0939) 251242 (Shropshire).

BROTHER 950i with KR850 ribber, KL116, single and double bed colour changers, transfer carriage, linker, manuals, £1,250. KG93 Garter Carriage, £230. Tel: (0392) 67707 (Exeter).

KNITMASTER Empisal 160 with punchcards, accessories, suit beginner, £60. Tel: (0753) 572950 (Slough).

SINGER 760 Touch and Sew sewing machine with accessories and instruction book. Good working order, £40 ono. Tel: (0823) 433651 (Taunton).

ANN KITE'S No.1 beginners tape V.H.S. Tel: (0480) 450133 (Huntingdon).

BROTHER KH230 Chunky machine, vgc, £145. Tel: (0635) 40256 (Newbury, Berks).

PASSAP 6000 Electronic, stand, four colour changer, 3000A Electra motor, as new condition, £1,200. Tel: (084421) 2774.

MOSAIC Floatless Fair-Isle by Kathleen Kinder. Ideal book for anyone with single or double bed colour changer, as new only, £4 incl. p&p. Tel: (0745) 825948 (Abergele).

BROTHER 950i plus table, used twice, excellent condition, £695. Hague Linker (manual) plus stand, video, book, as new, £175. Tel: (0274) 636937 (Bradford).

TOYOTA Electric foot control, linker. Hardly used, £225. Tel: 081–755 4052 (Hounslow).

BROTHER KH890 knitting machine with unused lace carriage, excellent condition as new, still boxed, £225. Tel: 021–476 1930 (Birmingham).

KNITMASTER Zippy Deluxe with punchcard and table, loads of pattern books. Machine never used, still in box, £250. Tel: (0704) 231179 (Southport).

BROTHER KH910 Electronic, KR830 ribber, instructions, extra pattern sheets. Excellent condition, £350 ono. Colour changer KH820A, £40. Brother, Mary Kinder books. Tel: (025125) 3483 (Farnham, Surrey).

FOR SALE

BROTHER Garter Carriage KG 89II boxed, little used as new, £215. Brother Convertible KX395 fine and chunky yarns, used once, £100. Tel: (0703) 740157 (Southampton).

BROTHER KH260 Chunky brand new carriage, (boxed) never used, £125. Also brand new Garter Bar (boxed) for standard machine, £28. Tel: 081–948 1931 (London).

KNITMASTER Punchcards packet (10), £2.50 pack. 321 Knitmaster, £120 or swap for Bond with video and ribber. Tel: (0602) 845742 (Nottingham).

BROTHER 230 Chunky machine and ribber, extra pattern books + Marion Nelson cards, vgc, £315 ono. Tel: (0646) 651667 (Pembroke).

MACHINE KNITS; Dolmans, Doreen Nelson; Chunky Knitting, Diane Bennett; Family Knits, Sandy Lightfoot; More mysteries of machine knitting unravelled, Joanna Nelson; all at £2 each. Tel: (0602) 845742 (Nottingham).

KNITMASTER 500 electronic and tilt table used twice, £330. Other new items available, linker SC1 intarsia AG20, Bellinky linker, colour changers YC1, YC5, all boxed. Tel: (0923) 267422 (Kings Langley).

BROTHER 260 Chunky machine with ribber, table, punchcards, books, excellent condition, £450 ono. Tel (0268) 765353 (Wickford).

KNITMASTER 155 Chunky punchcard knitting machine with ribber, hardly used. Unused intarsia carriage. All boxed, £420. Tel: (0900) 68809 after 6.00 pm. (Workington)

PFAFF electronic 6000 knitting machine, 10 months old hardly used, 4 colour changer, stand, manuals, genuine reason for sale, £1000. Tel: (0493) 731721 (Great Yarmouth).

BROTHER KH710 complete with lace carriage, nearly new condition £100. 'Illustrated Handbook of machine knitting' by Janet Nabney, £12. Tel: (0202) 600797 (Poole).

BROTHER 891 with built in knitleader and lace carriage, ribber, single bed colour changer, four way mast, basic shapes, punch, cards, £550 ono. Tel: (0254) 263423 (Lancs).

SWAP

KNITMASTER electronic 560, ribber, intarsia, one action lace carriage, knitradar for Passap, with all accessories. Tel: (0533) 856041 (Leicester).

BROTHER KR830, ribber, with double bed colour changer, for KG88 Garter carriage. Tel: 081–802 9585 (London).

KNITMASTER Chunky 155 with ribber, for Passap with four colour changer. Tel: (0533) 856041 (Leicester).

WANTED

KNITMASTER SRP50 or SRP60 ribber in good condition. Tel: (0865) 58445 (Oxford).

VOGUE knitting books up to 1960, (not Vogue International). Tel: 071–701 2130 (SE London).

CARRIAGE for Knitmaster 360. Tel: (0772) 421041 (Preston).

EIGHT way tension mast, garter carriage, must be good condition. Please ring with details. Tel: (0980) 38801 (Salisbury).

SINGLE bed colour changer for Jones/B830. Tel: 061–439–5161 (Stockport).

BROTHER ribbers Chunky 260 and 850, must be excellent condition and within reasonable distance. Tel: 061–764–5800 (Bury).

BROTHER KL116 knitleader, intarsia carriages KA8210, KA260. Tel: 047470 8693 (Longfield, Kent).

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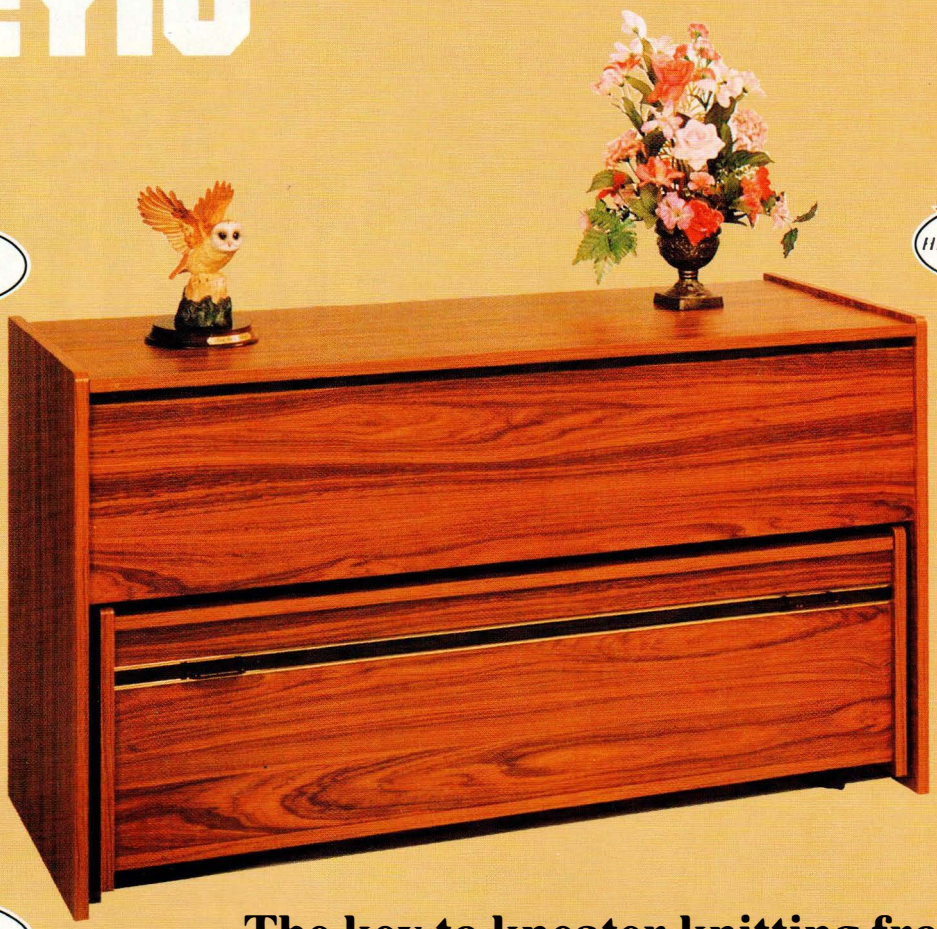

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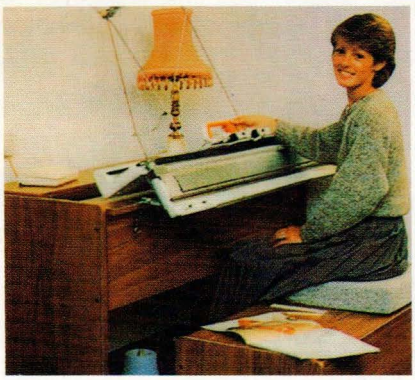


Variable tilt for perfect comfort

Full tilt – machine flat– ribber vertical

Easy glide storage bench

Elegant yet sturdy – child safe!

Leave your knitting and carriages on – just slide away your machine and ribber in seconds. The unique variable height and pitch means you knit in maximum comfort. The slideaway action converts your cabinet into a handsome piece of furniture. Cones feed from the floor through the base of the cabinet. The bench if ordered will store cones and many accessories – even another machine. It glides under the cabinet on strong easy run castors. Complete with a bench the Keyto cabinet is £189.95 plus £10.00 carriage (UK mainland). Each unit is flatpacked with easy to follow assembly instructions. Choose yours from simulated Warm Natural Teak or Traditional Walnut.

Dimensions: 51"×27½"×18¾".
Delivery: Please allow up to 28 days for delivery.
Keyto Cabinet and Bench: RRP £265.00 plus £10.00 carriage. Cash Offer price £189.95 plus £10.00 carriage.
Keyto Cabinet: RRP £195.00 plus £10.00 carriage. Cash Offer price £132.95 plus £10.00 carriage. Pay by Cheque or Credit Card. – H.P. Terms on request. Just – Telephone (0204) 491515 (5 lines). Credit Brokerage No. 181346.

PLEASE SEND ME:

✓ *Please tick*

Keyto Cabinet only in Warm Natural Teak ☐ or Traditional Walnut ☐
Keyto Cabinet & Bench in Warm Natural Teak ☐ or Traditional Walnut ☐

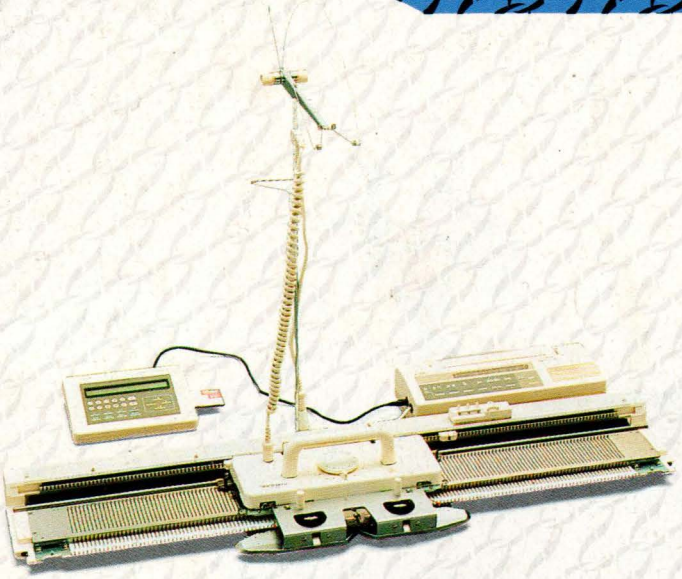
I enclose my deposit of £ or payment in full of £ payable to 'Keyto' or
Please debit my Access/Visa Card No: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Signature: _
Name: _
Address: _
_ _
Post Code: _ _ _ _ _ _ _ _ _ _ _ Tel No: _ _ _ _ _ _ _ _ _ _ _ _ _ _

Post to: KEYTO, UNIT 8, HALLIWELL INDUSTRIAL ESTATE WAPPING STREET, HALLIWELL ROAD, BOLTON BL1 8DN

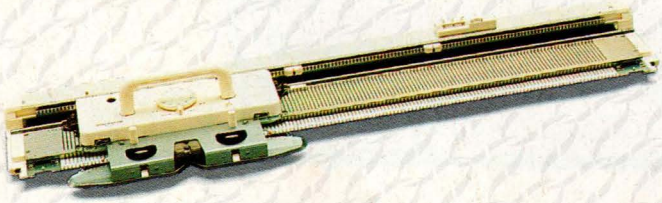
A PEARL OF A SYSTEM FROM SILVER

And our low prices add up to a golden opportunity to boost dramatically both the speed and variety of your knitting projects.

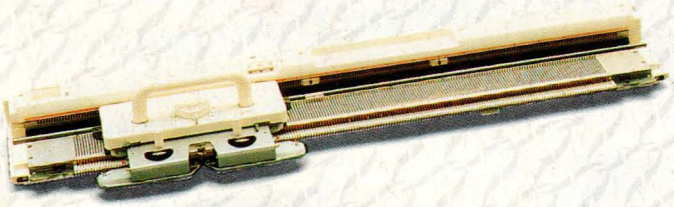
The Silver Modular Electronic Knitting System is based on four easy-to-change and whisper-quiet beds of the highest quality. So you'll be able to set just the right gauge and tension for any yarn - and each gives you a wide range of stitch options at the touch of a single lever. Attachments permit even greater stitch and pattern variety. And as the beds and attachments are each sold separately, you buy only as you need to.



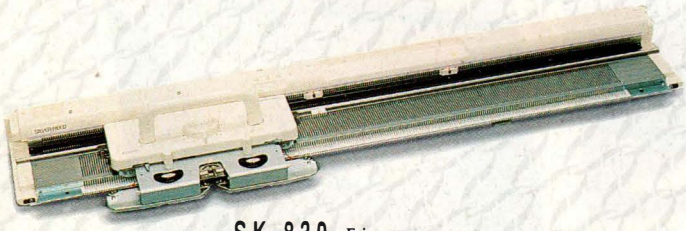
SK 890 *Chunky gauge*
Knits Mohair, Aran, Chunky



SK 860 *Double Knitting gauge*
Knits 4 ply, DK, Aran, Mohair



SK 840 *Standard gauge*
Knits 2 ply, 3 ply, 4 ply

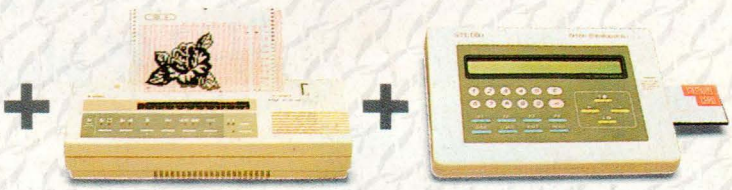


SK 830 *Fine gauge*
Knits 1 ply, 2 ply, 3 ply

The Silver EC1 Pattern Controller gives you great flexibility.

Just one is needed for all four beds. Use any of the 50 pre-printed designs - or draw your own on easy-to-use pattern cards. Cards and books from previous models are also compatible. Additionally, you can vary your patterns at the touch of a button: from doubling the height to changing single bed patterns into Double Jacquard designs and more.
And the second Stitch Width Indicator lets you select any part of a pattern to create extra designs - with no programming required.

Silver EC1 *Pattern Controller*



Silver PE1 *Design Controller*

The Silver PE1 Design Controller means big is beautiful.

No longer will it be a problem to expand your designs: add this option to your system and you can increase your patterns from 60 stitches to the full width of the bed, control complicated 3 colour slip patterns with ease, and create non-repeating patterns of up to 220,000 stitches. When you've finished, you can store your patterns on the memory card - and you can also choose a pattern from one of the optional pre-programmed memory card sets.

With the new Silver Modular Electronic Knitting System, the only thing built in is choice - and learning to use it takes no time at all.

Silver. Putting you in control.

For a free demonstration visit your local Dealer NOW

For a brochure:
Send a 9"x12" stamped addressed envelope to:
Silver Knitting Machines Ltd., Unit 1, 10 Wandle Way, Willow Lane Trading Estate, Mitcham, Surrey CR4 4TE.